Ethane, 1,2-dibromo-

Other names:

1,2-DIBROMOETHANE
1,2-Dibromaethan
1,2-Dibromoetano
1,2-Dibroomethaan
1,2-Ethylene dibromide
1,2-dibromoethane (EDB)
ALPHA,BETA-DIBROMOETHANE
Aadibroom
Aethylenbromid
Bromofume
Bromuro di etile
CH2BrCH2Br
Celmide
DBE
Dibromoethane
Dibromure D'ethylene
Dowfume 40
Dowfume W-100
Dowfume W-8
Dowfume W-90
Dowfume W85
Dowfume edb
Dwubromoetan
E-D-Bee
EDB
EDB-85
ENT 15,349
ETHYLENE DIBROMIDE
Edabrom
Ethylene bromide
Fumo-gas
Glycol Dibromide
Iscobrome D
Kopfume
NCI-C00522
Nefis
Nephis
Pestmaster edb-85
Rcra waste number U067
Sanhyuum

	Soilbrom
	Soilbrom-100
	Soilbrom-40
	Soilbrom-85
	Soilbrom-90
	Soilbrom-90ec
	Soilbrome-85
	Soilfume
	UN 1605
	Unifume
	alpha,omega-dibromoethane
	sym-Dibromoethane
	«alpha»,«beta»-Dibromoethane
	«alpha»,«omega»-Dibromoethane
	Â«alphaÂ»,Â«betaÂ»-Dibromoethane
	Â«alphaÂ»,Â«omegaÂ»-Dibromoethane
Inchi:	InChI=1S/C2H4Br2/c3-1-2-4/h1-2H2
InchiKey:	PAAZPARNPHGIKF-UHFFFAOYSA-N
Formula:	C2H4Br2
SMILES:	BrCCBr
Mol. weight [g/mol]:	187.86
CAS:	106-93-4

Physical Properties

Property code	Value	Unit	Source
af	0.7950		KDB
chl	-1240.30 ± 1.60	kJ/mol	NIST Webbook
chl	-1215.70	kJ/mol	NIST Webbook
dm	1.00	debye	KDB
dvisc	0.0017330	Pa×s	Studies on Transport and Thermodynamic Properties of Binary Mixtures of Hexan-1-ol with Halogenated Compounds at 293.15 K
gf	-10.60	kJ/mol	KDB
hf	-38.94	kJ/mol	KDB
hfus	11.51	kJ/mol	Joback Method
hvap	41.70 ± 0.80	kJ/mol	NIST Webbook
hvap	41.73 ± 0.02	kJ/mol	NIST Webbook
hvap	42.40	kJ/mol	NIST Webbook

hvap	41.74	kJ/mol	NIST Webbook
hvap	41.70 ± 0.80	kJ/mol	NIST Webbook
hvap	41.80	kJ/mol	NIST Webbook
hvap	23.70 ± 0.20	kJ/mol	NIST Webbook
ie	10.44 ± 0.10	eV	NIST Webbook
ie	10.57 ± 0.02	eV	NIST Webbook
ie	10.38	eV	NIST Webbook
ie	10.37	eV	NIST Webbook
ie	10.20	eV	NIST Webbook
ie	10.42	eV	NIST Webbook
ie	10.37	eV	NIST Webbook
ie	10.58 ± 0.10	eV	NIST Webbook
ie	10.35 ± 0.04	eV	NIST Webbook
log10ws	-1.68		Estimated Solubility Method
logp	1.776		Crippen Method
mcvol	74.040	ml/mol	McGowan Method
pc	7200.00	kPa	KDB
rinpol	805.00		NIST Webbook
rinpol	790.00		NIST Webbook
rinpol	827.00		NIST Webbook
rinpol	787.00		NIST Webbook
rinpol	811.00		NIST Webbook
rinpol	795.00		NIST Webbook
rinpol	790.00		NIST Webbook
rinpol	803.00		NIST Webbook
rinpol	770.90		NIST Webbook
rinpol	783.90		NIST Webbook
rinpol	791.00		NIST Webbook
rinpol	787.00		NIST Webbook
rinpol	805.00		NIST Webbook
rinpol	823.00		NIST Webbook
rinpol	814.90		NIST Webbook
rinpol	783.00		NIST Webbook
rinpol	774.00		NIST Webbook
ripol	1286.00		NIST Webbook
ripol	1265.00		NIST Webbook
ripol	1299.71		NIST Webbook
ripol	1247.00		NIST Webbook
ripol	1265.00		NIST Webbook
ripol	1226.00		NIST Webbook
ripol	1267.79		NIST Webbook
ripol	1247.00		NIST Webbook
sl	223.30	J/mol×K	NIST Webbook
tb	404.60 ± 0.50	K	NIST Webbook

tb	402.00 ± 1.50	K	NIST Webbook
tb	404.70 ± 1.50	K	NIST Webbook
tb	402.15 ± 1.50	K	NIST Webbook
tb	404.80 ± 0.50	K	NIST Webbook
tb	464.39 ± 0.20	K	NIST Webbook
tb	404.80 ± 0.50	K	NIST Webbook
tb	404.80 ± 0.30	K	NIST Webbook
tb	404.80 ± 0.40	K	NIST Webbook
tb	404.90 ± 1.00	K	NIST Webbook
tb	404.80 ± 0.30	K	NIST Webbook
tb	385.70 ± 20.00	K	NIST Webbook
tb	404.80 ± 0.50	K	NIST Webbook
tb	403.70 ± 1.50	K	NIST Webbook
tb	404.56 ± 0.07	K	NIST Webbook
tb	404.20 ± 1.50	K	NIST Webbook
tb	404.30 ± 0.60	K	NIST Webbook
tb	402.65 ± 1.50	K	NIST Webbook
tb	404.90 ± 1.00	K	NIST Webbook
tb	404.90 ± 0.80	K	NIST Webbook
tb	398.00 ± 20.00	K	NIST Webbook
tb	405.00 ± 3.00	K	NIST Webbook
tb	402.00 ± 3.00	K	NIST Webbook
tb	404.00 ± 2.00	K	NIST Webbook
tb	323.70 ± 1.00	K	NIST Webbook
tb	404.30 ± 0.50	K	NIST Webbook
tb	402.65 ± 0.60	K	NIST Webbook
tb	404.85 ± 0.30	K	NIST Webbook
tb	405.80 ± 0.80	K	NIST Webbook
tb	404.45 ± 0.40	K	NIST Webbook
tb	404.80 ± 0.40	K	NIST Webbook
tb	403.00 ± 2.00	K	NIST Webbook
tb	404.85 ± 0.30	K	NIST Webbook
tb	404.50	K	NIST Webbook
tb	404.65	K	Excess volumes and speeds of sound of mixtures of 1,2-dibromoethane with chlorinated ethanes and ethenes at 303.15 K
tb	404.70	K	KDB
tb	404.80 ± 0.50	K	NIST Webbook
tb	404.80	K	NIST Webbook
tb	404.90 ± 1.00	K	NIST Webbook
tc	583.00	K	KDB
tf	283.08	K	KDB
tt	283.00 ± 0.20	K	NIST Webbook

tt	282.90	K	KDB
vc	0.272	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	91.33	J/mol×K	377.48	Joback Method
cpg	113.99	J/mol×K	587.98	Joback Method
cpg	110.86	J/mol×K	552.89	Joback Method
cpg	107.50	J/mol×K	517.81	Joback Method
cpg	103.89	J/mol×K	482.73	Joback Method
cpg	100.01	J/mol×K	447.65	Joback Method
cpg	95.83	J/mol×K	412.56	Joback Method
cpl	139.42	J/mol×K	337.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	135.00	J/mol×K	298.15	NIST Webbook
cpl	134.70	J/mol×K	298.15	NIST Webbook
cpl	140.91	J/mol×K	355.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.40	J/mol×K	300.00	NIST Webbook
cpl	134.80	J/mol×K	293.00	NIST Webbook
cpl	135.14	J/mol×K	310.00	NIST Webbook
cpl	134.70	J/mol×K	398.00	NIST Webbook
cpl	136.00	J/mol×K	298.15	NIST Webbook
cpl	129.50	J/mol×K	300.00	NIST Webbook

cpl	140.68	J/mol×K	352.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	140.82	J/mol×K	354.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	140.55	J/mol×K	351.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	140.42	J/mol×K	349.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	140.29	J/mol×K	348.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	140.16	J/mol×K	346.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	140.03	J/mol×K	345.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	139.90	J/mol×K	343.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	139.78	J/mol×K	342.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	139.66	J/mol×K	340.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	136.87	J/mol×K	293.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	136.90	J/mol×K	294.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	136.95	J/mol×K	295.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	139.54	J/mol×K	339.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.02	J/mol×K	297.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	137.04	J/mol×K	298.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K

cpl	137.09	J/mol×K	299.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	137.11	J/mol×K	300.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	137.15	J/mol×K	301.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	137.20	J/mol×K	302.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	137.25	J/mol×K	303.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	137.29	J/mol×K	304.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K

cpl	137.32	J/mol×K	305.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K	
cpl	137.39	J/mol×K	306.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K	
cpl	137.42	J/mol×K	307.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K	
cpl	137.49	J/mol×K	308.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K	
cpl	137.53	J/mol×K	309.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K	
cpl	137.60	J/mol×K	310.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K	

cpl	137.65	J/mol×K	311.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	137.71	J/mol×K	312.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	137.77	J/mol×K	313.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	136.31	J/mol×K	285.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.37	J/mol×K	286.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.43	J/mol×K	288.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	136.50	J/mol×K	289.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.56	J/mol×K	291.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.63	J/mol×K	292.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.70	J/mol×K	294.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.77	J/mol×K	295.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	136.84	J/mol×K	297.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.89	J/mol×K	298.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.92	J/mol×K	298.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.99	J/mol×K	300.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.07	J/mol×K	301.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	137.15	J/mol×K	303.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.23	J/mol×K	304.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.31	J/mol×K	306.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.39	J/mol×K	307.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.48	J/mol×K	309.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	137.57	J/mol×K	310.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.66	J/mol×K	312.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.75	J/mol×K	313.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.84	J/mol×K	315.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	137.93	J/mol×K	316.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	138.03	J/mol×K	318.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	138.13	J/mol×K	319.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	138.22	J/mol×K	321.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	138.33	J/mol×K	322.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	138.43	J/mol×K	324.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	138.53	J/mol×K	325.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	138.64	J/mol×K	327.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	138.74	J/mol×K	328.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	138.85	J/mol×K	330.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	138.96	J/mol×K	331.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	139.07	J/mol×K	333.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	139.19	J/mol×K	334.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	139.30	J/mol×K	336.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	136.99	J/mol×K	296.15	Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 313.15 K
dvisc	0.0006017	Pa×s	353.22	Joback Method
dvisc	0.0029279	Pa×s	231.90	Joback Method
dvisc	0.0018926	Pa×s	256.16	Joback Method
dvisc	0.0013193	Pa×s	280.43	Joback Method
dvisc	0.0009741	Pa×s	304.69	Joback Method
dvisc	0.0007521	Pa×s	328.95	Joback Method
dvisc	0.0004954	Pa×s	377.48	Joback Method
hfust	10.94	kJ/mol	283.00	NIST Webbook
hfust	1.94	kJ/mol	249.50	NIST Webbook
hsubt	49.80	kJ/mol	266.00	NIST Webbook
hsubt	54.80	kJ/mol	238.50	NIST Webbook
hvapt	41.50 ± 0.10	kJ/mol	330.00	NIST Webbook
hvapt	37.40	kJ/mol	491.00	NIST Webbook
hvapt	41.60 ± 0.10	kJ/mol	323.00	NIST Webbook

hvapt	49.60	kJ/mol	291.50	NIST Webbook
hvapt	39.60	kJ/mol	364.50	NIST Webbook
hvapt	36.36	kJ/mol	404.60	KDB
hvapt	41.78	kJ/mol	404.70	NIST Webbook
hvapt	34.77	kJ/mol	404.80	NIST Webbook
hvapt	41.80	kJ/mol	300.00	NIST Webbook
hvapt	31.10	kJ/mol	325.00	NIST Webbook
hvapt	40.00	kJ/mol	402.00	NIST Webbook
hvapt	41.40 ± 0.10	kJ/mol	338.00	NIST Webbook
hvapt	41.70 ± 0.10	kJ/mol	315.00	NIST Webbook
hvapt	41.70 ± 0.10	kJ/mol	308.00	NIST Webbook
rfi	1.53570		298.15	Thermodynamic study of (alkyl esters + a,x-alkyl dihalides) II: HE m and V E m for 25 binary mixtures {xCu-1H2u-1CO2C2H5 + (1 - x)a,x-BrCH2(CH2)v-2CH2Br}, where u = 1 to 5, a = 1 and v = x = 2 to 6
rhol	2180.01	kg/m3	293.00	KDB
rhol	2179.24	kg/m3	293.20	Isobaric vapour liquid equilibria for binary mixtures of 1,2-dibromoethane with 1,2-dichloroethane, trichloromethane, and 1,1,2,2-tetrachloroethane at atmospheric pressure
rhol	2179.60	kg/m3	293.15	Thermophysical and sonochemical behaviour of binary mixtures of decan-1-ol with halohydrocarbons at (T = 293.15 and 313.15) K

rhol	2179.24	kg/m3	293.20	Isobaric Vapor-Liquid Equilibria for Binary Mixtures of 1,2-Dibromoethane with Benzene, Toluene, Fluorobenzene, and Bromobenzene at Atmospheric Pressure
sfust	38.66	J/mol×K	283.00	NIST Webbook
sfust	7.78	J/mol×K	249.50	NIST Webbook
speedsl	994.27	m/s	298.15	Densities, Excess Molar Volumes, Ultrasonic Speeds, and Isentropic Compressibilities of Hexan-1-ol with 1,2-Dichloroethane, 1,2-Dibromoethane, and 1,1,2,2-Tetrachloroethene at (293.15 and 298.15) K
speedsl	1007.04	m/s	293.15	Densities, Excess Molar Volumes, Ultrasonic Speeds, and Isentropic Compressibilities of Hexan-1-ol with 1,2-Dichloroethane, 1,2-Dibromoethane, and 1,1,2,2-Tetrachloroethene at (293.15 and 298.15) K
srf	0.04	N/m	303.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes
srf	0.04	N/m	298.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes
srf	0.04	N/m	293.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes

srf	0.04	N/m	308.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes
srf	0.04	N/m	313.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes
srf	0.04	N/m	293.20	KDB

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.46602e+01
Coeff. B	-3.70799e+03
Coeff. C	-3.47480e+01
Temperature range (K), min.	282.94
Temperature range (K), max.	650.15

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	3.51685e+01
Coeff. B	-5.52047e+03
Coeff. C	-2.83216e+00
Coeff. D	6.02747e-07
Temperature range (K), min.	282.94
Temperature range (K), max.	650.15

Sources

Densities, Excess Molar Volumes, Ultrasonic Speeds, and Isentropic Compressibilities of Hexan-1-ol with 1,2-Dichloroethane, 1,2-Dibromoethane, and 1,1,2,2-Tetrachloroethene at (293.15 and 298.15) K:	https://www.doi.org/10.1007/s10765-010-0874-x
Thermodynamic study of (alkyl esters + a,x-alkyl dihalides) II: HE m and V E m for 28 binary mixtures {x Cu-1H2u-1COOCH3 + (1-x)a,x-BrCH2(CH2)v-2CH2Br}, where u = 1 to 5, a = 1 and v = x = 2 to 6:	https://www.doi.org/10.1016/j.jct.2005.07.009
Isobaric Vapor-Liquid Equilibria for Binary Mixtures of 1,2-Dibromoethane with Benzene, Toluene, Chlorobenzene, and Bromobenzene at Atmospheric Pressure:	https://www.doi.org/10.1021/je050231r
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
Studies on thermodynamic properties of binary mixtures of hexan-1-ol with halogenated compounds at T = (308.15 and 313.15) K:	https://www.doi.org/10.1016/j.jct.2009.05.001

Determination of Henry's Law Constants Using Internal Standards with Benchmark Values: https://www.doi.org/10.1021/je3010535

Heat Capacity of alpha,omega-Bromochloroalkanes and alpha,omega-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K: https://www.doi.org/10.1021/je201002j

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C106934&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

KDB: https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1571

Isobaric vapour liquid equilibria for binary mixtures of 1,2-dibromoethane with 1,2-dichloroethane, trichloromethane, and 1,1,2,2-tetrachloroethane at atmospheric pressure: https://www.doi.org/10.1016/j.fluid.2005.10.020

Thermophysical and sonochemical behaviour of binary mixtures of decane with halohydrocarbons at (T = 298.15 to 313.15) K: https://www.doi.org/10.1016/j.jct.2009.07.020

Excess volumes and speeds of sound of mixtures of 1,2-dibromoethane with chlorinated ethanes and ethenes at 303.15 K: https://www.doi.org/10.1016/j.jct.2004.11.013

The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes: https://www.doi.org/10.1016/j.jct.2018.12.042

KDB Vapor Pressure Data: https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1571

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Thermophysical and Acoustical Properties of the Binary Mixtures 1,2-Dibromoethane + Heptane within the Temperature Range from 293.15 K to 318.15 K: https://www.doi.org/10.1021/je0603325

Thermodynamic study of (alkyl esters + alpha,omega-alkyl dihalides) IV. HE and VE for 25 binary mixtures {xCu-1H2u-1CO2CH3 + (1-x)alpha,omega-BrCH2(CH2)(v-2)CH2Br}, where u = 1 to 5, alpha = 1 and v = omega = 2 to 6: https://www.doi.org/10.1016/j.jct.2006.05.004

KDB Pure (Korean Thermophysical Properties Databank): https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1571

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Thermodynamic study of (alkyl esters + alpha,beta-alkyl dihalides) VI.H and V for 20 binary mixtures {xCu-1H2u-1CO2(CH2)3CH3 + (1-x)alpha,omega-BrCH2(CH2)v-2CH2Br}, where u = 1 to 5, alpha = 1, and v = omega = 2 to 6: https://www.doi.org/10.1016/j.jct.2009.05.006

Studies on Transport and Thermodynamic Properties of Binary Mixtures of Hexan-1-ol with Halogenated Compounds at 293.15 K: https://www.doi.org/10.1021/je900278v

Legend

af: Acentric Factor
chl: Standard liquid enthalpy of combustion
cpg: Ideal gas heat capacity
cpl: Liquid phase heat capacity
dm: Dipole Moment
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hfust: Enthalpy of fusion at a given temperature
hsubt: Enthalpy of sublimation at a given temperature
hvap: Enthalpy of vaporization at standard conditions
hvapt: Enthalpy of vaporization at a given temperature
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
pvap: Vapor pressure
rfi: Refractive Index

rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume