

1,2-Dibromoethylene

Other names:	Ethene, 1,2-dibromo- Ethylene, 1,2-dibromo- s-Dibromoethylene Acetylene dibromide 1,2-Dibromoethene sym-Dibromoethylene 2-Bromovinyl bromide NSC 8744
Inchi:	InChI=1S/C2H2Br2/c3-1-2-4/h1-2H
InchiKey:	UWTUEMKLYAGTNQ-UHFFFAOYSA-N
Formula:	C2H2Br2
SMILES:	BrC=CBr
Mol. weight [g/mol]:	185.84
CAS:	540-49-8

Physical Properties

Property code	Value	Unit	Source
gf	74.82	kJ/mol	Joback Method
hf	85.27	kJ/mol	Joback Method
hfus	11.71	kJ/mol	Joback Method
hvap	32.87	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.247		Crippen Method
mcvol	69.740	ml/mol	McGowan Method
pc	6718.62	kPa	Joback Method
tb	385.00 ± 2.00	K	NIST Webbook
tc	604.03	K	Joback Method
tf	283.00 ± 1.50	K	NIST Webbook
vc	0.252	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	75.76	J/mol×K	381.64	Joback Method

cpg	91.00	J/molxK	566.97	Joback Method
cpg	88.63	J/molxK	529.90	Joback Method
cpg	85.95	J/molxK	492.84	Joback Method
cpg	82.94	J/molxK	455.77	Joback Method
cpg	79.56	J/molxK	418.71	Joback Method
cpg	93.12	J/molxK	604.03	Joback Method
dvisc	0.0004097	Paxs	381.64	Joback Method
dvisc	0.0004997	Paxs	355.84	Joback Method
dvisc	0.0006286	Paxs	330.03	Joback Method
dvisc	0.0008221	Paxs	304.23	Joback Method
dvisc	0.0011301	Paxs	278.43	Joback Method
dvisc	0.0016579	Paxs	252.62	Joback Method
dvisc	0.0026536	Paxs	226.82	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	383.20	K	101.00	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C540498&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/36-206-3/1-2-Dibromoethylene.pdf>

Generated by Cheméo on 2024-04-23 16:02:57.690651064 +0000 UTC m=+16177426.611228379.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.