1,2-Dibromoethane-d2(1,2)

Inchi: InChI=1S/C2H4Br2/c3-1-2-4/h1-2H2/i1D,2D
InchiKey: PAAZPARNPHGIKF-QDNHWIQGSA-N
Formula: C2H2D2Br2
SMILES: BrCCBr
Mol. weight [g/mol]: 189.87
CAS: 126266-42-0

Physical Properties

Property code	Value	Unit	Source
gf	-5.40	kJ/mol	Joback Method
hf	-31.95	kJ/mol	Joback Method
hfus	11.51	kJ/mol	Joback Method
hvap	32.92	kJ/mol	Joback Method
log10ws	-1.52		Crippen Method
logp	1.776		Crippen Method
mcvol	74.040	ml/mol	McGowan Method
pc	6180.53	kPa	Joback Method
tb	377.48	K	Joback Method
tc	587.98	K	Joback Method
tf	231.90	K	Joback Method
vc	0.272	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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
cpg	91.33	J/mol×K	377.48	Joback Method
cpl	141.60	J/mol×K	293.00	NIST Webbook
dvisc	0.0006017	Pa×s	353.22	Joback Method

dvisc	0.0007521	Pa×s	328.95	Joback Method
dvisc	0.0009741	Pa×s	304.69	Joback Method
dvisc	0.0013193	Pa×s	280.43	Joback Method
dvisc	0.0018926	Pa×s	256.16	Joback Method
dvisc	0.0029279	Pa×s	231.90	Joback Method
dvisc	0.0004954	Pa×s	377.48	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C126266420&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase 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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume