Cyclohexane,1,2-dibromo-,cis-

Inchi: InChI=1S/C6H10Br2/c7-5-3-1-2-4-6(5)8/h5-6H,1-4H2/t5-,6+
InchiKey: CZNHKZKWKJNOTE-OLQVQODUSA-N
Formula: C6H10Br2
SMILES: BrC1CCCCC1Br
Mol. weight [g/mol]: 241.95
CAS: 19246-38-9

Physical Properties

Property code	Value	Unit	Source
gf	45.02	kJ/mol	Joback Method
hf	-80.53	kJ/mol	Joback Method
hfus	14.77	kJ/mol	Joback Method
hvap	41.94	kJ/mol	Joback Method
ie	9.94 ± 0.02	eV	NIST Webbook
log10ws	-3.32		Crippen Method
logp	3.087		Crippen Method
mcvol	119.540	ml/mol	McGowan Method
pc	4540.80	kPa	Joback Method
tb	483.88	K	Joback Method
tc	729.25	K	Joback Method
tf	280.12	K	Joback Method
vc	0.427	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.19	J/mol×K	483.88	Joback Method
cpg	231.69	J/mol×K	524.77	Joback Method
cpg	245.19	J/mol×K	565.67	Joback Method
cpg	257.74	J/mol×K	606.56	Joback Method
cpg	269.38	J/mol×K	647.46	Joback Method
cpg	280.16	J/mol×K	688.35	Joback Method
cpg	290.13	J/mol×K	729.25	Joback Method
dvisc	0.0031464	Pa×s	280.12	Joback Method

dvisc	0.0018892	Pa×s	314.08	Joback Method
dvisc	0.0012531	Pa×s	348.04	Joback Method
dvisc	0.0008941	Pa×s	382.00	Joback Method
dvisc	0.0006741	Pa×s	415.96	Joback Method
dvisc	0.0005303	Pa×s	449.92	Joback Method
dvisc	0.0004316	Pa×s	483.88	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	388.20	K	1.90	NIST Webbook

Sources

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=C19246389&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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
ie: Ionization energy
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