Chloroform, deutero-

Inchi: InChI=1S/CHCl3/c2-1(3)4/h1H/i1D
InchiKey: HEDRZPFGACZZDS-MICDWDOJSA-N
Formula: CHCl3
SMILES: [2H]C(Cl)(Cl)Cl
Mol. weight [g/mol]: 120.38

Physical Properties

Property code	Value	Unit	Source
af	0.1169		Cheméo Relay (1.0)
gf	-80.69	kJ/mol	Joback Method
hf	-160.23	kJ/mol	Cheméo Relay (1.0)
hfus	7.41	kJ/mol	Joback Method
hvap	26.90	kJ/mol	Cheméo Relay (1.0)
ie	11.31	eV	Cheméo Relay (1.0)
log10ws	-2.12		Cheméo Relay (1.0)
logp	1.986		Crippen Method
mcvol	61.670	ml/mol	McGowan Method
pc	4980.35	kPa	Joback Method
tb	304.75	K	Cheméo Relay (1.0)
tc	577.16	K	Cheméo Relay (1.0)
tf	215.06	K	Cheméo Relay (1.0)
vc	0.260	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	71.18	J/mol×K	334.13	Joback Method
cpg	73.44	J/mol×K	367.13	Joback Method
cpg	75.56	J/mol×K	400.12	Joback Method
cpg	77.54	J/mol×K	433.12	Joback Method
cpg	79.40	J/mol×K	466.12	Joback Method
cpg	81.13	J/mol×K	499.12	Joback Method
cpg	82.74	J/mol×K	532.11	Joback Method
dvisc	0.0053758	Pa×s	175.79	Joback Method

dvisc	0.0026426	Pa×s	202.18	Joback Method
dvisc	0.0015306	Pa×s	228.57	Joback Method
dvisc	0.0009926	Pa×s	254.96	Joback Method
dvisc	0.0006982	Pa×s	281.35	Joback Method
dvisc	0.0005216	Pa×s	307.74	Joback Method
dvisc	0.0004081	Pa×s	334.13	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=B6007499&Units=SI

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

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

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

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af: Acentric Factor
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
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume