

8-Chloro-1-octanol, methyl ether

Other names:	8-Chlorooctyl methyl ether
Inchi:	InChI=1S/C9H19ClO/c1-11-9-7-5-3-2-4-6-8-10/h2-9H2,1H3
InchiKey:	AGXFBKIMLRSQTG-UHFFFAOYSA-N
Formula:	C9H19ClO
SMILES:	COCCCCCCCCCI
Mol. weight [g/mol]:	178.70

Physical Properties

Property code	Value	Unit	Source
gf	-92.03	kJ/mol	Joback Method
hf	-377.05	kJ/mol	Joback Method
hfus	24.45	kJ/mol	Joback Method
hvap	42.42	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	3.212		Crippen Method
mvol	155.780	ml/mol	McGowan Method
pc	2191.78	kPa	Joback Method
rinpol	1295.80		NIST Webbook
tb	465.17	K	Joback Method
tc	634.82	K	Joback Method
tf	243.34	K	Joback Method
vc	0.607	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.22	J/molxK	465.17	Joback Method
cpg	343.71	J/molxK	493.44	Joback Method
cpg	356.72	J/molxK	521.72	Joback Method
cpg	369.26	J/molxK	549.99	Joback Method
cpg	381.33	J/molxK	578.27	Joback Method
cpg	392.95	J/molxK	606.54	Joback Method
cpg	404.10	J/molxK	634.82	Joback Method
dvisc	0.0038364	Paxs	243.34	Joback Method

dvisc	0.0017470	Paxs	280.31	Joback Method
dvisc	0.0009556	Paxs	317.28	Joback Method
dvisc	0.0005929	Paxs	354.25	Joback Method
dvisc	0.0004026	Paxs	391.23	Joback Method
dvisc	0.0002922	Paxs	428.20	Joback Method
dvisc	0.0002232	Paxs	465.17	Joback Method

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=U333820&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/33-739-5/8-Chloro-1-octanol-methyl-ether.pdf>

Generated by Cheméo on 2024-04-29 06:41:21.639472494 +0000 UTC m=+16662130.560049806.

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