

o-Chlorophenethyl alcohol

Other names:	o-Chlorophenylmethylcarbinol Benzeneethanol, 2-chloro- o-chlorophenethyl alcohol
Inchi:	InChI=1S/C8H9ClO/c9-8-4-2-1-3-7(8)5-6-10/h1-4,10H,5-6H2
InchiKey:	IWNHTCBFRSCBQK-UHFFFAOYSA-N
Formula:	C8H9ClO
SMILES:	OCCc1ccccc1Cl
Mol. weight [g/mol]:	156.61
CAS:	19819-95-5

Physical Properties

Property code	Value	Unit	Source
gf	-29.49	kJ/mol	Joback Method
hf	-151.36	kJ/mol	Joback Method
hfus	18.41	kJ/mol	Joback Method
hvap	57.40	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	1.875		Crippen Method
mcvol	117.930	ml/mol	McGowan Method
pc	3834.03	kPa	Joback Method
tb	543.71	K	Joback Method
tc	747.28	K	Joback Method
tf	309.60	K	Joback Method
vc	0.444	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.99	J/mol×K	543.71	Joback Method
cpg	290.00	J/mol×K	713.35	Joback Method
cpg	282.44	J/mol×K	679.42	Joback Method
cpg	274.38	J/mol×K	645.50	Joback Method
cpg	265.80	J/mol×K	611.57	Joback Method
cpg	256.68	J/mol×K	577.64	Joback Method

cpg	297.09	J/molxK	747.28	Joback Method
dvisc	0.0001234	Paxs	543.71	Joback Method
dvisc	0.0001874	Paxs	504.69	Joback Method
dvisc	0.0003052	Paxs	465.67	Joback Method
dvisc	0.0005433	Paxs	426.66	Joback Method
dvisc	0.0010862	Paxs	387.64	Joback Method
dvisc	0.0025361	Paxs	348.62	Joback Method
dvisc	0.0073323	Paxs	309.60	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	357.70	K	0.40	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C19819955&Units=SI

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
mccvol:	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

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