

2,5-Dichloro-«alpha»-methylbenzyl alcohol

Other names:	2,5-Dichlorophenylmethylcarbinol Benzenemethanol, 2,5-dichloro-«alpha»-methyl- 2,5-Dichloro-alpha-methylbenzyl alcohol
Inchi:	InChI=1S/C8H8Cl2O/c1-5(11)7-4-6(9)2-3-8(7)10/h2-5,11H,1H3
InchiKey:	RDMKUSDLLGKMCK-UHFFFAOYSA-N
Formula:	C8H8Cl2O
SMILES:	CC(O)c1cc(Cl)ccc1Cl
Mol. weight [g/mol]:	191.06
CAS:	1475-12-3

Physical Properties

Property code	Value	Unit	Source
gf	-53.49	kJ/mol	Joback Method
hf	-183.85	kJ/mol	Joback Method
hfus	18.70	kJ/mol	Joback Method
hvap	62.06	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.047		Crippen Method
mcvol	130.170	ml/mol	McGowan Method
pc	3633.35	kPa	Joback Method
tb	585.68	K	Joback Method
tc	798.96	K	Joback Method
tf	337.04	K	Joback Method
vc	0.486	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.61	J/mol×K	585.68	Joback Method
cpg	277.58	J/mol×K	621.23	Joback Method
cpg	285.99	J/mol×K	656.77	Joback Method
cpg	293.87	J/mol×K	692.32	Joback Method
cpg	301.24	J/mol×K	727.87	Joback Method
cpg	308.12	J/mol×K	763.41	Joback Method

cpg	314.53	J/mol×K	798.96	Joback Method
dvisc	0.0047267	Paxs	337.04	Joback Method
dvisc	0.0017296	Paxs	378.48	Joback Method
dvisc	0.0007718	Paxs	419.92	Joback Method
dvisc	0.0003981	Paxs	461.36	Joback Method
dvisc	0.0002291	Paxs	502.80	Joback Method
dvisc	0.0001434	Paxs	544.24	Joback Method
dvisc	0.0000959	Paxs	585.68	Joback Method

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=C1475123&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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

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