

p-Chloro-«alpha», «alpha»-dimethylphenethyl alcohol

Other names:	Benzeneethanol, 4-chloro-«alpha», «alpha»-dimethyl- Benzenethanol, 4-chloro-«alpha», «alpha»-dimethyl- 4-chloro-«alpha», «alpha»-dimethylphenethyl alcohol
Inchi:	InChI=1S/C10H13ClO/c1-10(2,12)7-8-3-5-9(11)6-4-8/h3-6,12H,7H2,1-2H3
InchiKey:	WAAJRPRSQXYAA-UHFFFAOYSA-N
Formula:	C10H13ClO
SMILES:	CC(C)(O)Cc1ccc(Cl)cc1
Mol. weight [g/mol]:	184.66
CAS:	5468-97-3

Physical Properties

Property code	Value	Unit	Source
gf	-9.81	kJ/mol	Joback Method
hf	-201.39	kJ/mol	Joback Method
hfus	16.18	kJ/mol	Joback Method
hvap	60.56	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	2.653		Crippen Method
mcvol	146.110	ml/mol	McGowan Method
pc	3127.99	kPa	Joback Method
tb	586.24	K	Joback Method
tc	795.56	K	Joback Method
tf	334.56	K	Joback Method
vc	0.544	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	340.76	J/mol×K	586.24	Joback Method
cpg	393.48	J/mol×K	760.68	Joback Method
cpg	384.37	J/mol×K	725.79	Joback Method
cpg	374.59	J/mol×K	690.90	Joback Method
cpg	364.10	J/mol×K	656.01	Joback Method
cpg	352.84	J/mol×K	621.13	Joback Method

cpg	401.98	J/mol×K	795.56	Joback Method
dvisc	0.0000805	Paxs	586.24	Joback Method
dvisc	0.0001253	Paxs	544.29	Joback Method
dvisc	0.0002100	Paxs	502.35	Joback Method
dvisc	0.0003866	Paxs	460.40	Joback Method
dvisc	0.0008044	Paxs	418.45	Joback Method
dvisc	0.0019708	Paxs	376.51	Joback Method
dvisc	0.0060450	Paxs	334.56	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5468973&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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