Benzenemethanol, 4-(dimethylamino)-

Other names: Benzyl alcohol, p-(dimethylamino)-
p-(Dimethylamino)benzyl alcohol
Dimethylaminobenzyl alcohol
Inchi: InChI=1S/C9H13NO/c1-10(2)9-5-3-8(7-11)4-6-9/h3-6,11H,7H2,1-2H3
InchiKey: WQBCAASPALGAKX-UHFFFAOYSA-N
Formula: C9H13NO
SMILES: CN(C)c1ccc(CO)cc1
Mol. weight [g/mol]: 151.21
CAS: 1703-46-4

Physical Properties

Property code	Value	Unit	Source
gf	101.64	kJ/mol	Joback Method
hf	-88.73	kJ/mol	Joback Method
hfus	19.83	kJ/mol	Joback Method
hvap	57.29	kJ/mol	Joback Method
log10ws	-1.52		Crippen Method
logp	1.245		Crippen Method
mcvol	129.760	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
tb	541.60	K	Joback Method
tc	735.15	K	Joback Method
tf	323.42	K	Joback Method
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.17	J/mol×K	541.60	Joback Method
cpg	312.22	J/mol×K	573.86	Joback Method
cpg	323.58	J/mol×K	606.12	Joback Method
cpg	334.30	J/mol×K	638.38	Joback Method
cpg	344.40	J/mol×K	670.64	Joback Method
cpg	353.91	J/mol×K	702.89	Joback Method

cpg	362.85	J/mol×K	735.15	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	396.20	K	0.10	NIST Webbook
tbrp	382.50 ± 0.50	K	0.01	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C1703464&Units=SI

Legend

cpg: Ideal gas heat capacity
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
tbrp: Boiling point at reduced pressure
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume