

Benzenemethanol, 3,5-dimethyl-

Other names:	Benzyl alcohol, 3,5-dimethyl- 3,5-Dimethylbenzyl alcohol 3,5-Dimethyl-1-hydroxymethylbenzene 3,5-Dimethylbenzenemethanol
Inchi:	InChI=1S/C9H12O/c1-7-3-8(2)5-9(4-7)6-10/h3-5,10H,6H2,1-2H3
InchiKey:	IQWWTJDRVBWBEL-UHFFFAOYSA-N
Formula:	C9H12O
SMILES:	<chem>Cc1cc(C)cc(CO)c1</chem>
Mol. weight [g/mol]:	136.19
CAS:	27129-87-9

Physical Properties

Property code	Value	Unit	Source
gf	-18.77	kJ/mol	Joback Method
hf	-167.73	kJ/mol	Joback Method
hfus	16.42	kJ/mol	Joback Method
hvap	55.91	kJ/mol	Joback Method
log10ws	-2.57		Crippen Method
logp	1.796		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3505.43	kPa	Joback Method
tb	492.70	K	NIST Webbook
tc	731.21	K	Joback Method
tf	303.47	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.07	J/molxK	534.14	Joback Method
cpg	277.11	J/molxK	566.99	Joback Method
cpg	287.59	J/molxK	599.83	Joback Method
cpg	297.54	J/molxK	632.68	Joback Method
cpg	306.97	J/molxK	665.52	Joback Method

cpg	315.91	J/molxK	698.37	Joback Method
cpg	324.37	J/molxK	731.21	Joback Method
dvisc	0.0061106	Paxs	303.47	Joback Method
dvisc	0.0021587	Paxs	341.92	Joback Method
dvisc	0.0009411	Paxs	380.36	Joback Method
dvisc	0.0004778	Paxs	418.81	Joback Method
dvisc	0.0002719	Paxs	457.25	Joback Method
dvisc	0.0001689	Paxs	495.69	Joback Method
dvisc	0.0001123	Paxs	534.14	Joback Method

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=C27129879&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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