

Benzenemethanol, 2-methyl-

Other names:	Benzyl alcohol, o-methyl- o-Methylbenzyl alcohol o-Tolyl alcohol 2-Methylbenzyl alcohol o-Tolyl carbinol 2-Methylbenzenemethanol
Inchi:	InChI=1S/C8H10O/c1-7-4-2-3-5-8(7)6-9/h2-5,9H,6H2,1H3
InchiKey:	XPNGNIFUDRPBFJ-UHFFFAOYSA-N
Formula:	C8H10O
SMILES:	Cc1ccccc1CO
Mol. weight [g/mol]:	122.16
CAS:	89-95-2

Physical Properties

Property code	Value	Unit	Source
gf	-17.56	kJ/mol	Joback Method
hf	-135.62	kJ/mol	Joback Method
hfus	14.22	kJ/mol	Joback Method
hvap	53.02	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	1.487		Crippen Method
mcvol	105.690	ml/mol	McGowan Method
pc	4015.93	kPa	Joback Method
ripol	1951.00		NIST Webbook
ripol	1996.00		NIST Webbook
tb	506.28	K	Joback Method
tc	704.92	K	Joback Method
tf	279.68	K	Joback Method
vc	0.395	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	223.35	J/mol×K	506.28	Joback Method

cpg	269.71	J/mol×K	671.81	Joback Method
cpg	261.46	J/mol×K	638.71	Joback Method
cpg	252.73	J/mol×K	605.60	Joback Method
cpg	243.47	J/mol×K	572.49	Joback Method
cpg	233.69	J/mol×K	539.39	Joback Method
cpg	277.48	J/mol×K	704.92	Joback Method
dvisc	0.0001373	Pa×s	506.28	Joback Method
dvisc	0.0002133	Pa×s	468.51	Joback Method
dvisc	0.0003578	Pa×s	430.75	Joback Method
dvisc	0.0006632	Pa×s	392.98	Joback Method
dvisc	0.0014015	Pa×s	355.21	Joback Method
dvisc	0.0035387	Pa×s	317.45	Joback Method
dvisc	0.0114745	Pa×s	279.68	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=C89952&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

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