Benzenemethanol, «alpha»,4-dimethyl-

Other names:	Benzyl alcohol, p,«alpha»-dimethyl-
	p-Tolylmethylcarbinol
	p,«alpha»-Dimethylbenzyl alcohol
	Bilagen
	Galinex
	Methyl-p-tolylcarbinol
	Norbilan
	Tomobil
	1-(p-Methylphenyl)ethanol
	1-(4-Methylphenyl)ethanol
	1-(4-Tolyl)ethanol
	1-p-Tolyl-1-ethanol
	1-p-Tolylethanol
	4-(«alpha»-Hydroxyethyl)toluene
	4-Methyl-«alpha»-phenethyl alcohol
	«alpha»,4-Dimethylbenzyl alcohol
	«alpha»,4-Dimethylbenzenemethanol
	Ethanol, 1-(p-tolyl)-
	4-Methylphenylmethylcarbinol
	Ethanol, 1-(4-methylphenyl)
	(.+/-.)-p,«alpha»-Dimethylbenzyl alcohol
	Methyl p-methylphenyl carbinol
	NSC 41714
Inchi:	InChI=1S/C9H12O/c1-7-3-5-9(6-4-7)8(2)10/h3-6,8,10H,1-2H3
InchiKey:	JESIHYIJKKUWIS-UHFFFAOYSA-N
Formula:	C9H12O
SMILES:	Cc1ccc(C(C)O)cc1
Mol. weight [g/mol]:	136.19
CAS:	536-50-5

Physical Properties

Property code	Value	Unit	Source
gf	-11.58	kJ/mol	Joback Method
hf	-161.54	kJ/mol	Joback Method
hfus	13.28	kJ/mol	Joback Method
hvap	54.86	kJ/mol	Joback Method

log10ws	-2.47		Crippen Method
logp	2.048		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3602.88	kPa	Joback Method
rinpol	1104.00		NIST Webbook
rinpol	1132.00		NIST Webbook
rinpol	1132.00		NIST Webbook
tb	528.72	K	Joback Method
tc	728.91	K	Joback Method
tf	275.95	K	Joback Method
vc	0.445	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.77	J/mol×K	528.72	Joback Method
cpg	318.90	J/mol×K	695.54	Joback Method
cpg	309.65	J/mol×K	662.18	Joback Method
cpg	299.83	J/mol×K	628.81	Joback Method
cpg	289.43	J/mol×K	595.45	Joback Method
cpg	278.42	J/mol×K	562.08	Joback Method
cpg	327.61	J/mol×K	728.91	Joback Method
dvisc	0.0001117	Pa×s	528.72	Joback Method
dvisc	0.0001795	Pa×s	486.59	Joback Method
dvisc	0.0003156	Pa×s	444.46	Joback Method
dvisc	0.0006246	Pa×s	402.34	Joback Method
dvisc	0.0014502	Pa×s	360.21	Joback Method
dvisc	0.0042083	Pa×s	318.08	Joback Method
dvisc	0.0169073	Pa×s	275.95	Joback Method

Sources

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=C536505&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume