Benzeneethanol, 4-methyl-

Other names:	Phenethyl alcohol, p-methyl-
	p-Methylphenethyl alcohol
	2-(p-Methylphenyl)ethanol
	2-(4-Methylphenyl)ethanol
	4-Methylbenzeneethanol
	4-Methylphenethyl alcohol
	p-Methylphenylethyl alcohol
	2-p-Tolylethanol
	NSC 5295
	NSC 54360
Inchi:	InChI=1S/C9H12O/c1-8-2-4-9(5-3-8)6-7-10/h2-5,10H,6-7H2,1H3
InchiKey:	DAVFJRVIVZOKKS-UHFFFAOYSA-N
Formula:	C9H12O
SMILES:	Cc1ccc(CCO)cc1
Mol. weight [g/mol]:	136.19
CAS:	699-02-5

Physical Properties

Property code	Value	Unit	Source
gf	-9.14	kJ/mol	Joback Method
hf	-156.26	kJ/mol	Joback Method
hfus	16.81	kJ/mol	Joback Method
hvap	55.25	kJ/mol	Joback Method
log10ws	-2.01		Crippen Method
logp	1.530		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3568.53	kPa	Joback Method
tb	517.70	K	NIST Webbook
tc	725.15	K	Joback Method
tf	290.95	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.45	J/mol×K	529.16	Joback Method
cpg	277.78	J/mol×K	561.83	Joback Method
cpg	288.52	J/mol×K	594.49	Joback Method
cpg	298.68	J/mol×K	627.16	Joback Method
cpg	308.29	J/mol×K	659.82	Joback Method
cpg	317.36	J/mol×K	692.49	Joback Method
cpg	325.92	J/mol×K	725.15	Joback Method
dvisc	0.0098792	Pa×s	290.95	Joback Method
dvisc	0.0030353	Pa×s	330.65	Joback Method
dvisc	0.0012010	Pa×s	370.35	Joback Method
dvisc	0.0005687	Pa×s	410.05	Joback Method
dvisc	0.0003073	Pa×s	449.76	Joback Method
dvisc	0.0001835	Pa×s	489.46	Joback Method
dvisc	0.0001184	Pa×s	529.16	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C699025&Units=SI
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

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