Benzenemethanol, 4-methyl-«alpha»-(4-methylphenyl)-

Other names: Benzhydrol, 4,4'-dimethyl-
Di-p-Tolylmethanol
4,4'-Dimethylbenzhydrol
Di-(4-tolyl)methanol

Inchi: InChI=1S/C15H16O/c1-11-3-7-13(8-4-11)15(16)14-9-5-12(2)6-10-14/h3-10,15-16H,1-2H

InchiKey: RGYZQSCFKFDECZ-UHFFFAOYSA-N

Formula: C15H16O

SMILES: Cc1ccc(C(O)c2ccc(C)cc2)cc1

Mol. weight [g/mol]: 212.29

CAS: 885-77-8

Physical Properties

Property code	Value	Unit	Source
gf	141.72	kJ/mol	Joback Method
hf	-60.32	kJ/mol	Joback Method
hfus	22.48	kJ/mol	Joback Method
hvap	71.15	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.385		Crippen Method
mcvol	180.560	ml/mol	McGowan Method
pc	2695.80	kPa	Joback Method
tb	697.66	K	Joback Method
tc	919.52	K	Joback Method
tf	382.51	K	Joback Method
vc	0.672	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	550.27	J/mol×K	919.52	Joback Method
cpg	478.54	J/mol×K	697.66	Joback Method
cpg	492.79	J/mol×K	734.64	Joback Method
cpg	506.06	J/mol×K	771.61	Joback Method
cpg	518.38	J/mol×K	808.59	Joback Method

cpg	529.82	J/mol×K	845.56	Joback Method
cpg	540.44	J/mol×K	882.54	Joback Method
dvisc	0.0000378	Pa×s	697.66	Joback Method
dvisc	0.0022098	Pa×s	382.51	Joback Method
dvisc	0.0007450	Pa×s	435.04	Joback Method
dvisc	0.0003175	Pa×s	487.56	Joback Method
dvisc	0.0001597	Pa×s	540.09	Joback Method
dvisc	0.0000907	Pa×s	592.61	Joback Method
dvisc	0.0000565	Pa×s	645.13	Joback Method
hvapt	81.70	kJ/mol	445.50	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=C885778&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
hvapt: Enthalpy of vaporization at a given temperature
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

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