2-(4-Biphenylyl)-2-propanol

Other names:	2-(p-Biphenylyl)-2-propanol
	[1,1'-Biphenyl]-4-methanol, «alpha»,«alpha»-dimethyl-
	2-(4-Biphenyl)-2-propanol
	«alpha»,«alpha»-dimethyl[1,1'-biphenyl]-4-methanol
Inchi:	InChI=1S/C15H16O/c1-15(2,16)14-10-8-13(9-11-14)12-6-4-3-5-7-12/h3-11,16H,1-2H3
InchiKey:	GOKGIYHIVSGXDM-UHFFFAOYSA-N
Formula:	C15H16O
SMILES:	CC(C)(O)c1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]:	212.29
CAS:	34352-74-4

Physical Properties

Property code	Value	Unit	Source
gf	156.63	kJ/mol	Joback Method
hf	-52.32	kJ/mol	Joback Method
hfus	18.97	kJ/mol	Joback Method
hvap	69.58	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	3.581		Crippen Method
mcvol	180.560	ml/mol	McGowan Method
pc	2770.08	kPa	Joback Method
tb	689.89	K	Joback Method
tc	918.80	K	Joback Method
tf	387.41	K	Joback Method
vc	0.667	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	481.89	J/mol×K	689.89	Joback Method
cpg	544.52	J/mol×K	880.65	Joback Method
cpg	533.89	J/mol×K	842.50	Joback Method
cpg	522.40	J/mol×K	804.34	Joback Method
cpg	509.97	J/mol×K	766.19	Joback Method

cpg	496.50	J/mol×K	728.04	Joback Method
cpg	554.38	J/mol×K	918.80	Joback Method
dvisc	0.0000353	Pa×s	689.89	Joback Method
dvisc	0.0000538	Pa×s	639.48	Joback Method
dvisc	0.0000882	Pa×s	589.06	Joback Method
dvisc	0.0001588	Pa×s	538.65	Joback Method
dvisc	0.0003227	Pa×s	488.24	Joback Method
dvisc	0.0007721	Pa×s	437.82	Joback Method
dvisc	0.0023177	Pa×s	387.41	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=C34352744&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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