

2-(4-Methylphenyl)-2-(4-hydroxyphenyl)propane

Inchi:	InChI=1S/C16H18O/c1-12-4-6-13(7-5-12)16(2,3)14-8-10-15(17)11-9-14/h4-11,17H,1-3H
InchiKey:	SZQFXKGNLRDAND-UHFFFAOYSA-N
Formula:	C16H18O
SMILES:	<chem>Cc1ccc(C(C)(C)c2ccc(O)cc2)cc1</chem>
Mol. weight [g/mol]:	226.31

Physical Properties

Property code	Value	Unit	Source
gf	147.25	kJ/mol	Joback Method
hf	-98.04	kJ/mol	Joback Method
hfus	23.26	kJ/mol	Joback Method
hvap	68.14	kJ/mol	Joback Method
log10ws	-4.11		Crippen Method
logp	4.027		Crippen Method
mcvol	194.650	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
rinpol	1961.00		NIST Webbook
tb	701.21	K	Joback Method
tc	954.53	K	Joback Method
tf	449.58	K	Joback Method
vc	0.670	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	531.18	J/molxK	701.21	Joback Method
cpg	547.84	J/molxK	743.43	Joback Method
cpg	563.23	J/molxK	785.65	Joback Method
cpg	577.54	J/molxK	827.87	Joback Method
cpg	590.95	J/molxK	870.09	Joback Method
cpg	603.66	J/molxK	912.31	Joback Method
cpg	615.84	J/molxK	954.53	Joback Method
dvisc	0.0004476	Paxs	449.58	Joback Method
dvisc	0.0001875	Paxs	491.52	Joback Method

dvisc	0.0000900	Paxs	533.46	Joback Method
dvisc	0.0000481	Paxs	575.39	Joback Method
dvisc	0.0000280	Paxs	617.33	Joback Method
dvisc	0.0000175	Paxs	659.27	Joback Method
dvisc	0.0000115	Paxs	701.21	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R569010&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
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

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