

2-Benzyl-p-cresol

Inchi:	InChI=1S/C14H14O/c1-11-7-8-14(15)13(9-11)10-12-5-3-2-4-6-12/h2-9,15H,10H2,1H3
InchiKey:	WGIJGSLQJSMKAH-UHFFFAOYSA-N
Formula:	C14H14O
SMILES:	Cc1ccc(O)c(Cc2ccccc2)c1
Mol. weight [g/mol]:	198.26
CAS:	716-96-1

Physical Properties

Property code	Value	Unit	Source
gf	127.57	kJ/mol	Joback Method
hf	-48.01	kJ/mol	Joback Method
hfus	25.49	kJ/mol	Joback Method
hvap	64.99	kJ/mol	Joback Method
log10ws	-3.60		Crippen Method
logp	3.291		Crippen Method
mcvol	166.470	ml/mol	McGowan Method
pc	3206.41	kPa	Joback Method
tb	658.68	K	Joback Method
tc	908.30	K	Joback Method
tf	424.62	K	Joback Method
vc	0.570	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	425.58	J/mol×K	658.68	Joback Method
cpg	490.93	J/mol×K	866.70	Joback Method
cpg	479.59	J/mol×K	825.09	Joback Method
cpg	467.52	J/mol×K	783.49	Joback Method
cpg	454.59	J/mol×K	741.89	Joback Method
cpg	440.66	J/mol×K	700.28	Joback Method
cpg	501.67	J/mol×K	908.30	Joback Method
dvisc	0.0000204	Pa×s	658.68	Joback Method
dvisc	0.0000303	Pa×s	619.67	Joback Method

dvisc	0.0000476	Pa×s	580.66	Joback Method
dvisc	0.0000797	Pa×s	541.65	Joback Method
dvisc	0.0001445	Pa×s	502.64	Joback Method
dvisc	0.0002899	Pa×s	463.63	Joback Method
dvisc	0.0006606	Pa×s	424.62	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C716961&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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