

5H-Dibenzo(a,d)cyclohepten-5-ol

Other names:	Dibenzosuberanol 5-Hydroxy-5H-dibenzo[a,d]cycloheptene 5H-Dibenzo[a,d]-1-cyclohepten-5-ol dibenzo[b,f]cyclohepten-1-ol
Inchi:	InChI=1S/C15H12O/c16-15-13-7-3-1-5-11(13)9-10-12-6-2-4-8-14(12)15/h1-10,15-16H
InchiKey:	SRIISEYIFDTRZ-UHFFFAOYSA-N
Formula:	C15H12O
SMILES:	<chem>OC1c2ccccc2C=Cc2ccccc21</chem>
Mol. weight [g/mol]:	208.26
CAS:	10354-00-4

Physical Properties

Property code	Value	Unit	Source
gf	234.87	kJ/mol	Joback Method
hf	75.54	kJ/mol	Joback Method
hfus	25.36	kJ/mol	Joback Method
hvap	71.74	kJ/mol	Joback Method
log10ws	-4.15		Crippen Method
logp	3.252		Crippen Method
mcvol	165.400	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	704.00	K	Joback Method
tc	937.72	K	Joback Method
tf	416.21	K	Joback Method
vc	0.622	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.95	J/molxK	704.00	Joback Method
cpg	451.07	J/molxK	742.95	Joback Method
cpg	463.18	J/molxK	781.91	Joback Method
cpg	474.39	J/molxK	820.86	Joback Method
cpg	484.80	J/molxK	859.81	Joback Method

cpg	494.51	J/mol×K	898.77	Joback Method
cpg	503.62	J/mol×K	937.72	Joback Method
dvisc	0.0017901	Paxs	416.21	Joback Method
dvisc	0.0008943	Paxs	464.18	Joback Method
dvisc	0.0005088	Paxs	512.14	Joback Method
dvisc	0.0003188	Paxs	560.11	Joback Method
dvisc	0.0002151	Paxs	608.07	Joback Method
dvisc	0.0001537	Paxs	656.04	Joback Method
dvisc	0.0001150	Paxs	704.00	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=C10354004&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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