

3,4:7,8-DIBENZO-2,5-DIOXABICYCLO[4,2,0]OCTA

Other names:	3,4:7,8-Dibenzo-2,5-dioxabicyclo[4.2.0]octa-3,7-diene
Inchi:	InChI=1S/C14H10O2/c1-2-6-10-9(5-1)13-14(10)16-12-8-4-3-7-11(12)15-13/h1-8,13-14H
InchiKey:	SSPWYTLOLF BHPK-UHFFFAOYSA-N
Formula:	C14H10O2
SMILES:	c1ccc2c(c1)OC1c3ccccc3C1O2
Mol. weight [g/mol]:	210.23

Physical Properties

Property code	Value	Unit	Source
hf	-43.75	kJ/mol	Cheméo Relay (1.0)
hfus	35.75	kJ/mol	Joback Method
ie	7.60 ± 0.02	eV	NIST Webbook
log10ws	-4.44		Cheméo Relay (1.0)
logp	3.254		Crippen Method
mcvol	150.620	ml/mol	McGowan Method
tf	448.06	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.48	J/mol×K	641.88	Joback Method
cpg	469.93	J/mol×K	895.06	Joback Method
cpg	459.99	J/mol×K	852.86	Joback Method
cpg	449.51	J/mol×K	810.66	Joback Method
cpg	438.29	J/mol×K	768.47	Joback Method
cpg	426.17	J/mol×K	726.27	Joback Method
cpg	412.96	J/mol×K	684.08	Joback Method
dvisc	0.0022001	Pa×s	531.68	Joback Method
dvisc	0.0018194	Pa×s	641.88	Joback Method
dvisc	0.0019235	Pa×s	605.15	Joback Method
dvisc	0.0020483	Pa×s	568.41	Joback Method
dvisc	0.0029382	Pa×s	421.48	Joback Method
dvisc	0.0023884	Pa×s	494.95	Joback Method
dvisc	0.0026272	Pa×s	458.21	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C42896184&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/33-429-9/3-4-7-8-DIBENZO-2-5-DIOXABICYCLO-4-2-0-OCTA-3-7-DIENE.pdf>

Generated by Cheméo on 2026-07-28 07:14:13.203404315 +0000 UTC m=+88610.620118259.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.