

Bicyclo[3.3.0]octa-2,6-diene

Inchi:	InChI=1S/C8H10/c1-3-7-5-2-6-8(7)4-1/h1-3,6-8H,4-5H2
InchiKey:	VRHOGTVMWMQIIC-UHFFFAOYSA-N
Formula:	C8H10
SMILES:	C1=CC2CC=CC2C1
Mol. weight [g/mol]:	106.17
CAS:	41527-66-6

Physical Properties

Property code	Value	Unit	Source
gf	173.70	kJ/mol	Joback Method
hf	40.39	kJ/mol	Joback Method
hfus	10.99	kJ/mol	Joback Method
hvap	34.16	kJ/mol	Joback Method
log10ws	-2.18		Crippen Method
logp	2.139		Crippen Method
mcvol	93.260	ml/mol	McGowan Method
pc	3886.79	kPa	Joback Method
tb	402.78	K	Joback Method
tc	617.25	K	Joback Method
tf	210.28	K	Joback Method
vc	0.353	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	172.91	J/molxK	402.78	Joback Method
cpg	241.22	J/molxK	581.51	Joback Method
cpg	229.50	J/molxK	545.76	Joback Method
cpg	216.87	J/molxK	510.02	Joback Method
cpg	203.27	J/molxK	474.27	Joback Method
cpg	188.64	J/molxK	438.53	Joback Method
cpg	252.10	J/molxK	617.25	Joback Method
dvisc	0.0004199	Paxs	402.78	Joback Method
dvisc	0.0004447	Paxs	370.70	Joback Method

dvisc	0.0004762	Paxs	338.61	Joback Method
dvisc	0.0005172	Paxs	306.53	Joback Method
dvisc	0.0005727	Paxs	274.45	Joback Method
dvisc	0.0006515	Paxs	242.36	Joback Method
dvisc	0.0007709	Paxs	210.28	Joback Method

Sources

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=C41527666&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
mccvol:	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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