

(E) 3,3'-Bis-(1-cyclohexenylidene)

Inchi:	InChI=1S/C12H16/c1-3-7-11(8-4-1)12-9-5-2-6-10-12/h3,5,7,9H,1-2,4,6,8,10H2/b12-11+
InchiKey:	IMTIYIKRBNQQTQ-VAWYXSNFSA-N
Formula:	C12H16
SMILES:	C1=CC(=C2C=CCCC2)CCC1
Mol. weight [g/mol]:	160.26
CAS:	132911-34-3

Physical Properties

Property code	Value	Unit	Source
gf	185.10	kJ/mol	Joback Method
hf	91.20	kJ/mol	NIST Webbook
hfus	11.25	kJ/mol	Joback Method
hvap	45.98	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	3.763		Crippen Method
mcvol	145.320	ml/mol	McGowan Method
pc	3032.27	kPa	Joback Method
tb	529.84	K	Joback Method
tc	771.90	K	Joback Method
tf	275.56	K	Joback Method
vc	0.533	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.74	J/molxK	529.84	Joback Method
cpg	353.15	J/molxK	570.18	Joback Method
cpg	372.13	J/molxK	610.53	Joback Method
cpg	389.74	J/molxK	650.87	Joback Method
cpg	406.06	J/molxK	691.21	Joback Method
cpg	421.16	J/molxK	731.55	Joback Method
cpg	435.09	J/molxK	771.90	Joback Method
dvisc	0.0045845	Paxs	275.56	Joback Method
dvisc	0.0019244	Paxs	317.94	Joback Method

dvisc	0.0009908	Paxs	360.32	Joback Method
dvisc	0.0005867	Paxs	402.70	Joback Method
dvisc	0.0003838	Paxs	445.08	Joback Method
dvisc	0.0002703	Paxs	487.46	Joback Method
dvisc	0.0002014	Paxs	529.84	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C132911343&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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