Bicycloheptyl-3,3'-diene

Inchi: InChI=1S/C14H22/c1-2-6-10-13(9-5-1)14-11-7-3-4-8-12-14/h1,3,5,7,13-14H,2,4,6,8-12H2
InchiKey: KMYUSDGASPTLGY-UHFFFAOYSA-N
Formula: C14H22
SMILES: C1=CCC(C2CC=CCCC2)CCC1
Mol. weight [g/mol]: 190.32

Physical Properties

Property code	Value	Unit	Source
gf	151.62	kJ/mol	Joback Method
hf	-120.41	kJ/mol	Joback Method
hfus	13.93	kJ/mol	Joback Method
hvap	48.54	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	4.479		Crippen Method
mcvol	177.800	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
rinpol	1556.00		NIST Webbook
tb	565.68	K	Joback Method
tc	810.92	K	Joback Method
tf	256.78	K	Joback Method
vc	0.641	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.90	J/mol×K	565.68	Joback Method
cpg	481.78	J/mol×K	606.55	Joback Method
cpg	506.80	J/mol×K	647.43	Joback Method
cpg	530.01	J/mol×K	688.30	Joback Method
cpg	551.45	J/mol×K	729.18	Joback Method
cpg	571.19	J/mol×K	770.05	Joback Method
cpg	589.26	J/mol×K	810.92	Joback Method
dvisc	0.0120754	Pa×s	256.78	Joback Method
dvisc	0.0030564	Pa×s	308.26	Joback Method

dvisc	0.0011463	Pa×s	359.75	Joback Method
dvisc	0.0005496	Pa×s	411.23	Joback Method
dvisc	0.0003103	Pa×s	462.71	Joback Method
dvisc	0.0001965	Pa×s	514.20	Joback Method
dvisc	0.0001352	Pa×s	565.68	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=R136457&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume