(E,Z,Z)-1,5,9-Cyclododecatriene, 3-methyl

Inchi: InChI=1S/C12H18/c1-12-10-8-6-4-2-3-5-7-9-11-12/h2,4,7-10,12H,3,5-6,11H2,1H3/b4-2-,
InchiKey: NONATMBHGBQNTN-DZNNNWEBSA-N
Formula: C12H18
SMILES: CC1C=CCC=CCCC=CC1
Mol. weight [g/mol]: 162.27

Physical Properties

Property code	Value	Unit	Source
gf	103.99	kJ/mol	Joback Method
hf	-94.15	kJ/mol	Joback Method
hfus	11.84	kJ/mol	Joback Method
hvap	44.47	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.865		Crippen Method
mcvol	156.180	ml/mol	McGowan Method
pc	2679.08	kPa	Joback Method
rinpol	1348.00		NIST Webbook
tb	512.34	K	Joback Method
tc	751.10	K	Joback Method
tf	217.06	K	Joback Method
vc	0.558	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.15	J/mol×K	512.34	Joback Method
cpg	449.93	J/mol×K	711.31	Joback Method
cpg	432.11	J/mol×K	671.52	Joback Method
cpg	412.92	J/mol×K	631.72	Joback Method
cpg	392.37	J/mol×K	591.93	Joback Method
cpg	370.44	J/mol×K	552.13	Joback Method
cpg	466.39	J/mol×K	751.10	Joback Method
dvisc	0.0000820	Pa×s	512.34	Joback Method
dvisc	0.0001333	Pa×s	463.13	Joback Method

dvisc	0.0002433	Pa×s	413.91	Joback Method
dvisc	0.0005225	Pa×s	364.70	Joback Method
dvisc	0.0014240	Pa×s	315.49	Joback Method
dvisc	0.0056226	Pa×s	266.27	Joback Method
dvisc	0.0413815	Pa×s	217.06	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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=R2841&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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume