Tricyclo[8.4.0.0(2,7)]dodecane, isomer # 2

Inchi: InChI=1S/C14H24/c1-3-7-13-11(5-1)9-10-12-6-2-4-8-14(12)13/h11-14H,1-10H2
InchiKey: GNMCGMFNBARSIY-UHFFFAOYSA-N
Formula: C14H24
SMILES: C1CCC2C(C1)CCC1CCCCC12
Mol. weight [g/mol]: 192.34

Physical Properties

Property code	Value	Unit	Source
gf	181.04	kJ/mol	Joback Method
hf	-165.03	kJ/mol	Joback Method
hfus	16.99	kJ/mol	Joback Method
hvap	47.05	kJ/mol	Joback Method
log10ws	-4.40		Crippen Method
logp	4.393		Crippen Method
mcvol	175.540	ml/mol	McGowan Method
pc	2311.39	kPa	Joback Method
rinpol	1513.00		NIST Webbook
rinpol	1538.00		NIST Webbook
ripol	1747.00		NIST Webbook
ripol	1705.00		NIST Webbook
tb	556.62	K	Joback Method
tc	789.03	K	Joback Method
tf	279.52	K	Joback Method
vc	0.649	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.02	J/mol×K	556.62	Joback Method
cpg	503.38	J/mol×K	595.35	Joback Method
cpg	528.90	J/mol×K	634.09	Joback Method
cpg	552.65	J/mol×K	672.82	Joback Method
cpg	574.73	J/mol×K	711.56	Joback Method
cpg	595.25	J/mol×K	750.29	Joback Method

cpg	614.30	J/mol×K	789.03	Joback Method
dvisc	0.0033535	Pa×s	279.52	Joback Method
dvisc	0.0021240	Pa×s	325.70	Joback Method
dvisc	0.0015068	Pa×s	371.89	Joback Method
dvisc	0.0011532	Pa×s	418.07	Joback Method
dvisc	0.0009308	Pa×s	464.25	Joback Method
dvisc	0.0007810	Pa×s	510.44	Joback Method
dvisc	0.0006747	Pa×s	556.62	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=R524671&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume