Tricyclo[8.4.0.0(3,8)]dodecane, isomer # 4

Inchi: InChI=1S/C14H24/c1-2-6-12-10-14-8-4-3-7-13(14)9-11(12)5-1/h11-14H,1-10H2
InchiKey: GVJFFQYXVOJXFI-UHFFFAOYSA-N
Formula: C14H24
SMILES: C1CCC2CC3CCCCC3CC2C1
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	1549.00		NIST Webbook
rinpol	1576.00		NIST Webbook
rinpol	1549.00		NIST Webbook
ripol	1804.00		NIST Webbook
ripol	1761.00		NIST Webbook
ripol	1761.00		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	595.25	J/mol×K	750.29	Joback Method
cpg	574.73	J/mol×K	711.56	Joback Method
cpg	552.65	J/mol×K	672.82	Joback Method

cpg	528.90	J/mol×K	634.09	Joback Method
cpg	503.38	J/mol×K	595.35	Joback Method
cpg	614.30	J/mol×K	789.03	Joback Method
dvisc	0.0006747	Pa×s	556.62	Joback Method
dvisc	0.0007810	Pa×s	510.44	Joback Method
dvisc	0.0009308	Pa×s	464.25	Joback Method
dvisc	0.0011532	Pa×s	418.07	Joback Method
dvisc	0.0015068	Pa×s	371.89	Joback Method
dvisc	0.0021240	Pa×s	325.70	Joback Method
dvisc	0.0033535	Pa×s	279.52	Joback Method

Sources

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=R524735&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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