Tricyclo[4.3.1.0(1,6)]deca-2-ene

Inchi: InChI=1S/C10H14/c1-2-5-10-7-3-6-9(10,4-1)8-10/h1,4H,2-3,5-8H2
InchiKey: WIFBEXHOHTVPTE-UHFFFAOYSA-N
Formula: C10H14
SMILES: C1=CC23CCCC2(CC1)C3
Mol. weight [g/mol]: 134.22
CAS: 136630-10-9

Physical Properties

Property code	Value	Unit	Source
gf	230.16	kJ/mol	Joback Method
hf	96.70	kJ/mol	NIST Webbook
hfus	1.52	kJ/mol	Joback Method
hvap	36.06	kJ/mol	Joback Method
log10ws	-3.06		Crippen Method
logp	2.897		Crippen Method
mcvol	114.880	ml/mol	McGowan Method
pc	3886.79	kPa	Joback Method
tb	457.00	K	Joback Method
tc	693.85	K	Joback Method
tf	305.56	K	Joback Method
vc	0.442	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.06	J/mol×K	457.00	Joback Method
cpg	278.73	J/mol×K	496.48	Joback Method
cpg	296.07	J/mol×K	535.95	Joback Method
cpg	311.46	J/mol×K	575.43	Joback Method
cpg	325.26	J/mol×K	614.90	Joback Method
cpg	337.85	J/mol×K	654.38	Joback Method
cpg	349.60	J/mol×K	693.85	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=C136630109&Units=SI

Legend

cpg:	Ideal gas heat capacity
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