(1R,3aS,5aS,8aR)-1,3a,5a-Trimethyl-4-methylened

Inchi: InChI=1S/C15H24/c1-11-6-9-14(4)12(2)10-13(3)7-5-8-15(11,13)14/h11H,2,5-10H2,1,3-4
InchiKey: KPKLYXVMHOVJJL-UHFFFAOYSA-N
Formula: C15H24
SMILES: C=C1CC2(C)CCCC23C(C)CCC13C
Mol. weight [g/mol]: 204.35
CAS: 71596-72-0

Physical Properties

Property code	Value	Unit	Source
gf	262.37	kJ/mol	Joback Method
hf	-37.23	kJ/mol	Joback Method
hfus	5.83	kJ/mol	Joback Method
hvap	45.46	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.559		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	2274.07	kPa	Joback Method
rinpol	1412.70		NIST Webbook
rinpol	1412.00		NIST Webbook
rinpol	1412.00		NIST Webbook
tb	566.57	K	Joback Method
tc	800.20	K	Joback Method
tf	386.73	K	Joback Method
vc	0.708	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.14	J/mol×K	566.57	Joback Method
cpg	522.76	J/mol×K	605.51	Joback Method
cpg	543.69	J/mol×K	644.45	Joback Method
cpg	563.39	J/mol×K	683.38	Joback Method
cpg	582.28	J/mol×K	722.32	Joback Method
cpg	600.82	J/mol×K	761.26	Joback Method

cpg	619.44	J/mol×K	800.20	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=C71596720&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
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