endo-Tricyclo[6,2,1,0(2,6)]dec-4-en-8-one

Inchi: InChI=1S/C10H12O/c11-10-5-6-4-9(10)8-3-1-2-7(6)8/h1,3,6-9H,2,4-5H2/t6?,7-,8-,9?/m1/
InchiKey: UCWKJFXRPXCVCD-OMRMXDSLSA-N
Formula: C10H12O
SMILES: O=C1CC2CC1C1C=CCC21
Mol. weight [g/mol]: 148.20

Physical Properties

Property code	Value	Unit	Source
gf	103.13	kJ/mol	Joback Method
hf	-137.75	kJ/mol	Joback Method
hfus	15.76	kJ/mol	Joback Method
hvap	42.00	kJ/mol	Joback Method
log10ws	-1.86		Crippen Method
logp	1.788		Crippen Method
mcvol	116.450	ml/mol	McGowan Method
pc	3360.64	kPa	Joback Method
rinpol	1284.00		NIST Webbook
ripol	1882.00		NIST Webbook
tb	515.00	K	Joback Method
tc	748.55	K	Joback Method
tf	317.50	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.87	J/mol×K	515.00	Joback Method
cpg	311.24	J/mol×K	553.92	Joback Method
cpg	328.32	J/mol×K	592.85	Joback Method
cpg	344.19	J/mol×K	631.77	Joback Method
cpg	358.94	J/mol×K	670.70	Joback Method
cpg	372.66	J/mol×K	709.62	Joback Method
cpg	385.43	J/mol×K	748.55	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R386211&Units=SI
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

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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