Cyclopentanone, 3-[3,5-decadienyl]-, (E,E)-

Inchi: InChI=1S/C15H24O/c1-2-3-4-5-6-7-8-9-10-14-11-12-15(16)13-14/h5-8,14H,2-4,9-13H2,1
InchiKey: MUCZESFIYHKOBE-BSWSSELBSA-N
Formula: C15H24O
SMILES: CCCCC=CC=CCCC1CCC(=O)C1
Mol. weight [g/mol]: 220.35

Physical Properties

Property code	Value	Unit	Source
gf	149.82	kJ/mol	Joback Method
hf	-195.71	kJ/mol	Joback Method
hfus	28.46	kJ/mol	Joback Method
hvap	53.40	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	4.438		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	1827.85	kPa	Joback Method
rinpol	1735.00		NIST Webbook
tb	634.02	K	Joback Method
tc	841.49	K	Joback Method
tf	327.77	K	Joback Method
vc	0.783	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	554.01	J/mol×K	634.02	Joback Method
cpg	573.85	J/mol×K	668.60	Joback Method
cpg	592.59	J/mol×K	703.18	Joback Method
cpg	610.25	J/mol×K	737.75	Joback Method
cpg	626.90	J/mol×K	772.33	Joback Method
cpg	642.58	J/mol×K	806.91	Joback Method
cpg	657.34	J/mol×K	841.49	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U131997&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume