3-Cyclopentylpropionic acid, undec-2-enyl ester

Inchi: InChI=1S/C19H34O2/c1-2-3-4-5-6-7-8-9-12-17-21-19(20)16-15-18-13-10-11-14-18/h9,12

InchiKey: HHBQQAXSWFNVSD-FMIVXFBMSA-N

Formula: C19H34O2

SMILES: CCCCCCCCC=CCOC(=O)CCC1CCCC1

Mol. weight [g/mol]: 294.47

Physical Properties

Property code	Value	Unit	Source
gf	-8.05	kJ/mol	Joback Method
hf	-502.59	kJ/mol	Joback Method
hfus	41.89	kJ/mol	Joback Method
hvap	67.26	kJ/mol	Joback Method
log10ws	-6.14		Crippen Method
logp	5.807		Crippen Method
mcvol	270.850	ml/mol	McGowan Method
pc	1308.95	kPa	Joback Method
rinpol	2135.40		NIST Webbook
tb	729.85	K	Joback Method
tc	917.69	K	Joback Method
tf	381.87	K	Joback Method
vc	1.044	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	819.33	J/mol×K	729.85	Joback Method
cpg	909.05	J/mol×K	886.38	Joback Method
cpg	893.08	J/mol×K	855.07	Joback Method
cpg	876.17	J/mol×K	823.77	Joback Method
cpg	858.27	J/mol×K	792.46	Joback Method
cpg	839.34	J/mol×K	761.16	Joback Method
cpg	924.13	J/mol×K	917.69	Joback Method
dvisc	0.0001051	Pa×s	729.85	Joback Method
dvisc	0.0001389	Pa×s	671.85	Joback Method

dvisc	0.0001934	Pa×s	613.86	Joback Method
dvisc	0.0002887	Pa×s	555.86	Joback Method
dvisc	0.0004728	Pa×s	497.86	Joback Method
dvisc	0.0008822	Pa×s	439.87	Joback Method
dvisc	0.0019892	Pa×s	381.87	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U292470&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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