

Cyclobutanecarboxylic acid, undec-2-enyl ester

Inchi:	InChI=1S/C16H28O2/c1-2-3-4-5-6-7-8-9-10-14-18-16(17)15-12-11-13-15/h9-10,15H,2-8,
InchiKey:	SNBOCETUQHKRBT-MDZDMXLPSA-N
Formula:	C16H28O2
SMILES:	CCCCCCCCC=CCOC(=O)C1CCC1
Mol. weight [g/mol]:	252.39

Physical Properties

Property code	Value	Unit	Source
gf	-21.21	kJ/mol	Joback Method
hf	-434.51	kJ/mol	Joback Method
hfus	36.22	kJ/mol	Joback Method
hvap	60.41	kJ/mol	Joback Method
log10ws	-4.89		Crippen Method
logp	4.636		Crippen Method
mcvol	228.580	ml/mol	McGowan Method
pc	1598.72	kPa	Joback Method
rinpol	1814.00		NIST Webbook
rinpol	1814.00		NIST Webbook
tb	656.94	K	Joback Method
tc	843.30	K	Joback Method
tf	351.58	K	Joback Method
vc	0.884	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	644.02	J/molxK	656.94	Joback Method
cpg	727.80	J/molxK	812.24	Joback Method
cpg	712.79	J/molxK	781.18	Joback Method
cpg	696.95	J/molxK	750.12	Joback Method
cpg	680.23	J/molxK	719.06	Joback Method
cpg	662.61	J/molxK	688.00	Joback Method
cpg	742.02	J/molxK	843.30	Joback Method
dvisc	0.0002004	Paxs	656.94	Joback Method

dvisc	0.0002542	Paxs	606.05	Joback Method
dvisc	0.0003367	Paxs	555.15	Joback Method
dvisc	0.0004721	Paxs	504.26	Joback Method
dvisc	0.0007141	Paxs	453.37	Joback Method
dvisc	0.0011994	Paxs	402.47	Joback Method
dvisc	0.0023407	Paxs	351.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U299136&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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

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