

Undec-10-ynoic acid, 3-methylbut-2-en-1-yl ester

Inchi:	InChI=1S/C16H26O2/c1-4-5-6-7-8-9-10-11-12-16(17)18-14-13-15(2)3/h1,13H,5-12,14H2
InchiKey:	PDJHJYUEGLJIHR-UHFFFAOYSA-N
Formula:	C16H26O2
SMILES:	C#CCCCCCCCC(=O)OCC=C(C)C
Mol. weight [g/mol]:	250.38

Physical Properties

Property code	Value	Unit	Source
gf	144.66	kJ/mol	Joback Method
hf	-219.04	kJ/mol	Joback Method
hfus	41.85	kJ/mol	Joback Method
hvap	60.26	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.250		Crippen Method
mcvol	230.840	ml/mol	McGowan Method
pc	1596.17	kPa	Joback Method
rinpol	1821.00		NIST Webbook
rinpol	1821.00		NIST Webbook
tb	635.93	K	Joback Method
tc	818.69	K	Joback Method
tf	370.17	K	Joback Method
vc	0.898	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	609.07	J/mol×K	635.93	Joback Method
cpg	625.85	J/mol×K	666.39	Joback Method
cpg	641.83	J/mol×K	696.85	Joback Method
cpg	657.03	J/mol×K	727.31	Joback Method
cpg	671.49	J/mol×K	757.77	Joback Method
cpg	685.25	J/mol×K	788.23	Joback Method
cpg	698.32	J/mol×K	818.69	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406963&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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