

Oct-3-enoic acid, but-3-yn-2-yl ester

Inchi:	InChI=1S/C12H18O2/c1-4-6-7-8-9-10-12(13)14-11(3)5-2/h2,8-9,11H,4,6-7,10H2,1,3H3/b
InchiKey:	BLTQCWAXHFORDG-CMDGGGOBGSA-N
Formula:	C12H18O2
SMILES:	C#CC(C)OC(=O)CC=CCCC
Mol. weight [g/mol]:	194.27

Physical Properties

Property code	Value	Unit	Source
gf	117.09	kJ/mol	Joback Method
hf	-131.97	kJ/mol	Joback Method
hfus	29.28	kJ/mol	Joback Method
hvap	50.89	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	2.688		Crippen Method
mcvol	174.480	ml/mol	McGowan Method
pc	2233.41	kPa	Joback Method
rinpol	1316.00		NIST Webbook
rinpol	1316.00		NIST Webbook
tb	544.09	K	Joback Method
tc	735.18	K	Joback Method
tf	324.05	K	Joback Method
vc	0.667	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.56	J/mol×K	544.09	Joback Method
cpg	422.14	J/mol×K	575.94	Joback Method
cpg	436.00	J/mol×K	607.79	Joback Method
cpg	449.17	J/mol×K	639.64	Joback Method
cpg	461.68	J/mol×K	671.48	Joback Method
cpg	473.56	J/mol×K	703.33	Joback Method
cpg	484.82	J/mol×K	735.18	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406948&Units=SI

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

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