

2-Heptenoic acid, hex-4-yn-3-yl ester

Inchi:	InChI=1S/C13H20O2/c1-4-7-8-9-11-13(14)15-12(6-3)10-5-2/h9,11-12H,4,6-8H2,1-3H3/b
InchiKey:	KSIGYFRZAHVJIL-PKNCBQFBNSA-N
Formula:	C13H20O2
SMILES:	CC#CC(CC)OC(=O)C=CCCC
Mol. weight [g/mol]:	208.30

Physical Properties

Property code	Value	Unit	Source
gf	105.24	kJ/mol	Joback Method
hf	-172.21	kJ/mol	Joback Method
hfus	32.01	kJ/mol	Joback Method
hvap	55.41	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.078		Crippen Method
mvol	188.570	ml/mol	McGowan Method
pc	2066.12	kPa	Joback Method
rinpol	1800.00		NIST Webbook
rinpol	1800.00		NIST Webbook
tb	585.85	K	Joback Method
tc	783.93	K	Joback Method
tf	394.45	K	Joback Method
vc	0.724	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	458.34	J/mol×K	585.85	Joback Method
cpg	474.11	J/mol×K	618.86	Joback Method
cpg	489.12	J/mol×K	651.88	Joback Method
cpg	503.38	J/mol×K	684.89	Joback Method
cpg	516.92	J/mol×K	717.91	Joback Method
cpg	529.75	J/mol×K	750.92	Joback Method
cpg	541.91	J/mol×K	783.93	Joback Method

Sources

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=U406941&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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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