

Butanoic acid, pent-2-en-4-ynyl ester

Inchi:

InChI=1S/C9H12O2/c1-3-5-6-8-11-9(10)7-4-2/h1,5-6H,4,7-8H2,2H3

InchiKey:

UTBJMMZGNZOAAW-UHFFFAOYSA-N

Formula:

C9H12O2

SMILES:

C#CC=CCOC(=O)CCC

Mol. weight [g/mol]:

152.19

Physical Properties

Property code	Value	Unit	Source
gf	94.27	kJ/mol	Joback Method
hf	-64.77	kJ/mol	Joback Method
hfus	25.03	kJ/mol	Joback Method
hvap	44.60	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.519		Crippen Method
mcvol	132.210	ml/mol	McGowan Method
pc	2966.57	kPa	Joback Method
tb	475.89	K	Joback Method
tc	670.01	K	Joback Method
tf	305.24	K	Joback Method
vc	0.505	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.67	J/mol×K	475.89	Joback Method
cpg	285.17	J/mol×K	508.24	Joback Method
cpg	296.12	J/mol×K	540.60	Joback Method
cpg	306.53	J/mol×K	572.95	Joback Method
cpg	316.42	J/mol×K	605.31	Joback Method
cpg	325.81	J/mol×K	637.66	Joback Method
cpg	334.72	J/mol×K	670.01	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=U299119&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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