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

Inchi: InChI=1S/C10H12O2/c1-2-3-4-8-12-10(11)9-6-5-7-9/h1,3-4,9H,5-8H2
InchiKey: DVNOPGBSYJNWPM-UHFFFAOYSA-N
Formula: C10H12O2
SMILES: C#CC=CCOC(=O)C1CCC1
Mol. weight [g/mol]: 164.20

Physical Properties

Property code	Value	Unit	Source
gf	151.34	kJ/mol	Joback Method
hf	-18.77	kJ/mol	Joback Method
hfus	23.65	kJ/mol	Joback Method
hvap	46.91	kJ/mol	Joback Method
log10ws	-2.17		Crippen Method
logp	1.519		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
rinpol	1244.00		NIST Webbook
tb	509.78	K	Joback Method
tc	724.28	K	Joback Method
tf	330.93	K	Joback Method
vc	0.510	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.35	J/mol×K	509.78	Joback Method
cpg	315.65	J/mol×K	545.53	Joback Method
cpg	329.06	J/mol×K	581.28	Joback Method
cpg	341.62	J/mol×K	617.03	Joback Method
cpg	353.37	J/mol×K	652.78	Joback Method
cpg	364.38	J/mol×K	688.53	Joback Method
cpg	374.69	J/mol×K	724.28	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=U299130&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume