Cyclopropaneoctanoic acid, 2-[[2-[(2-ethylcyclopropyl)methyl]cyclopropyl]met methyl ester

Inchi: InChI=1S/C22H38O2/c1-3-16-11-18(16)13-20-15-21(20)14-19-12-17(19)9-7-5-4-6-8-10-2
InchiKey: KDWSWRXUIMELKF-UHFFFAOYSA-N
Formula: C22H38O2
SMILES: CCC1CC1CC1CC1CC1CCCCCCCC(=O)OC
Mol. weight [g/mol]: 334.54
CAS: 10152-71-3

Physical Properties

Property code	Value	Unit	Source
gf	59.56	kJ/mol	Joback Method
hf	-584.83	kJ/mol	Joback Method
hfus	53.14	kJ/mol	Joback Method
hvap	72.53	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	5.989		Crippen Method
mcvol	295.700	ml/mol	McGowan Method
pc	1116.31	kPa	Joback Method
rinpol	2350.00		NIST Webbook
tb	785.26	K	Joback Method
tc	975.12	K	Joback Method
tf	450.96	K	Joback Method
vc	1.159	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	994.01	J/mol×K	785.26	Joback Method
cpg	1015.61	J/mol×K	816.90	Joback Method
cpg	1036.09	J/mol×K	848.55	Joback Method
cpg	1055.53	J/mol×K	880.19	Joback Method
cpg	1074.01	J/mol×K	911.84	Joback Method
cpg	1091.59	J/mol×K	943.48	Joback Method
cpg	1108.37	J/mol×K	975.12	Joback Method
dvisc	0.0044185	Pa×s	450.96	Joback Method

dvisc	0.0039500	Pa×s	506.68	Joback Method
dvisc	0.0036105	Pa×s	562.39	Joback Method
dvisc	0.0033540	Pa×s	618.11	Joback Method
dvisc	0.0031540	Pa×s	673.83	Joback Method
dvisc	0.0029939	Pa×s	729.54	Joback Method
dvisc	0.0028630	Pa×s	785.26	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C10152713&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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