3-Cyclopentylpropionic acid, pentyl ester

Inchi: InChI=1S/C13H24O2/c1-2-3-6-11-15-13(14)10-9-12-7-4-5-8-12/h12H,2-11H2,1H3
InchiKey: JZKZDGPVKBEGPD-UHFFFAOYSA-N
Formula: C13H24O2
SMILES: CCCCCOC(=O)CCC1CCCC1
Mol. weight [g/mol]: 212.33

Physical Properties

Property code	Value	Unit	Source
gf	-138.79	kJ/mol	Joback Method
hf	-495.97	kJ/mol	Joback Method
hfus	26.15	kJ/mol	Joback Method
hvap	53.94	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.690		Crippen Method
mcvol	190.610	ml/mol	McGowan Method
pc	1992.98	kPa	Joback Method
rinpol	1566.00		NIST Webbook
tb	588.41	K	Joback Method
tc	779.04	K	Joback Method
tf	319.33	K	Joback Method
vc	0.729	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	504.67	J/mol×K	588.41	Joback Method
cpg	523.31	J/mol×K	620.18	Joback Method
cpg	541.03	J/mol×K	651.95	Joback Method
cpg	557.84	J/mol×K	683.72	Joback Method
cpg	573.76	J/mol×K	715.50	Joback Method
cpg	588.83	J/mol×K	747.27	Joback Method
cpg	603.06	J/mol×K	779.04	Joback Method
dvisc	0.0031696	Pa×s	319.33	Joback Method
dvisc	0.0015749	Pa×s	364.18	Joback Method

dvisc	0.0009122	Pa×s	409.02	Joback Method
dvisc	0.0005886	Pa×s	453.87	Joback Method
dvisc	0.0004109	Pa×s	498.72	Joback Method
dvisc	0.0003044	Pa×s	543.56	Joback Method
dvisc	0.0002360	Pa×s	588.41	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U292332&Units=SI
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

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