3-Cyclopentylpropionic acid, nonyl ester

Inchi: InChI=1S/C17H32O2/c1-2-3-4-5-6-7-10-15-19-17(18)14-13-16-11-8-9-12-16/h16H,2-15H
InchiKey: CBEWPYVMEYHIPC-UHFFFAOYSA-N
Formula: C17H32O2
SMILES: CCCCCCCCCOC(=O)CCC1CCCC1
Mol. weight [g/mol]: 268.43

Physical Properties

Property code	Value	Unit	Source
gf	-105.11	kJ/mol	Joback Method
hf	-578.53	kJ/mol	Joback Method
hfus	36.51	kJ/mol	Joback Method
hvap	62.85	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	5.251		Crippen Method
mcvol	246.970	ml/mol	McGowan Method
pc	1452.35	kPa	Joback Method
tb	679.93	K	Joback Method
tc	863.86	K	Joback Method
tf	364.41	K	Joback Method
vc	0.953	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	724.98	J/mol×K	679.93	Joback Method
cpg	814.92	J/mol×K	833.20	Joback Method
cpg	798.86	J/mol×K	802.55	Joback Method
cpg	781.86	J/mol×K	771.89	Joback Method
cpg	763.90	J/mol×K	741.24	Joback Method
cpg	744.95	J/mol×K	710.58	Joback Method
cpg	830.07	J/mol×K	863.86	Joback Method
dvisc	0.0001547	Pa×s	679.93	Joback Method
dvisc	0.0002027	Pa×s	627.34	Joback Method
dvisc	0.0002790	Pa×s	574.76	Joback Method

dvisc	0.0004095	Pa×s	522.17	Joback Method
dvisc	0.0006550	Pa×s	469.58	Joback Method
dvisc	0.0011794	Pa×s	417.00	Joback Method
dvisc	0.0025169	Pa×s	364.41	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U292268&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume