

# 3-Cyclopentylpropionic acid, heptadecyl ester

<b>Inchi:</b>	InChI=1S/C25H48O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-18-23-27-25(26)22-21-24-19
<b>InchiKey:</b>	WJHIYBFCQQGWNY-UHFFFAOYSA-N
<b>Formula:</b>	C25H48O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCC1CCCC1
<b>Mol. weight [g/mol]:</b>	380.65

## Physical Properties

Property code	Value	Unit	Source
gf	-37.75	kJ/mol	Joback Method
hf	-743.65	kJ/mol	Joback Method
hfus	57.23	kJ/mol	Joback Method
hvap	80.66	kJ/mol	Joback Method
log10ws	-8.80		Crippen Method
logp	8.371		Crippen Method
mvol	359.690	ml/mol	McGowan Method
pc	869.14	kPa	Joback Method
rinpol	2701.20		NIST Webbook
tb	862.97	K	Joback Method
tc	1057.10	K	Joback Method
tf	454.57	K	Joback Method
vc	1.401	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1215.31	J/molxK	862.97	Joback Method
cpg	1237.36	J/molxK	895.32	Joback Method
cpg	1258.09	J/molxK	927.68	Joback Method
cpg	1277.55	J/molxK	960.03	Joback Method
cpg	1295.80	J/molxK	992.39	Joback Method
cpg	1312.88	J/molxK	1024.74	Joback Method
cpg	1328.87	J/molxK	1057.10	Joback Method
dvisc	0.0011563	Paxs	454.57	Joback Method
dvisc	0.0004975	Paxs	522.64	Joback Method

dvisc	0.0002600	Paxs	590.70	Joback Method
dvisc	0.0001554	Paxs	658.77	Joback Method
dvisc	0.0001022	Paxs	726.84	Joback Method
dvisc	0.0000723	Paxs	794.90	Joback Method
dvisc	0.0000540	Paxs	862.97	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U292274&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292274&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/63-323-3/3-Cyclopentylpropionic-acid-heptadecyl-ester.pdf>

Generated by Cheméo on 2024-04-27 10:51:36.406772874 +0000 UTC m=+16504345.327350196.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.