

# ethyl 13-(cyclopent-2-enyl)tridecanoate

<b>Other names:</b>	2-Cyclopentene-1-tridecanoic acid, ethyl ester, (S)-
<b>Inchi:</b>	InChI=1S/C20H36O2/c1-2-22-20(21)18-12-10-8-6-4-3-5-7-9-11-15-19-16-13-14-17-19/h1
<b>InchiKey:</b>	FDGHZUQYDACRTA-IBGZPJMESA-N
<b>Formula:</b>	C20H36O2
<b>SMILES:</b>	CCOC(=O)CCCCCCCCCCCCC1C=CCC1
<b>Mol. weight [g/mol]:</b>	308.50
<b>CAS:</b>	623-32-5

## Physical Properties

Property code	Value	Unit	Source
gf	-49.89	kJ/mol	Joback Method
hf	-582.67	kJ/mol	Joback Method
hfus	45.50	kJ/mol	Joback Method
hvap	69.82	kJ/mol	Joback Method
log10ws	-6.56		Crippen Method
logp	6.197		Crippen Method
mcvol	284.940	ml/mol	McGowan Method
pc	1208.99	kPa	Joback Method
rinpol	2256.50		NIST Webbook
rinpol	2256.50		NIST Webbook
tb	747.73	K	Joback Method
tc	931.67	K	Joback Method
tf	398.98	K	Joback Method
vc	1.107	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	876.62	J/molxK	747.73	Joback Method
cpg	965.68	J/molxK	901.01	Joback Method
cpg	949.85	J/molxK	870.35	Joback Method
cpg	933.07	J/molxK	839.70	Joback Method
cpg	915.29	J/molxK	809.04	Joback Method
cpg	896.49	J/molxK	778.39	Joback Method

cpg	980.58	J/molxK	931.67	Joback Method
dvisc	0.0001137	Paxs	747.73	Joback Method
dvisc	0.0001486	Paxs	689.61	Joback Method
dvisc	0.0002041	Paxs	631.48	Joback Method
dvisc	0.0002989	Paxs	573.36	Joback Method
dvisc	0.0004772	Paxs	515.23	Joback Method
dvisc	0.0008579	Paxs	457.10	Joback Method
dvisc	0.0018300	Paxs	398.98	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	503.20	K	2.70	NIST Webbook

## Sources

<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=C623325&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C623325&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>rinpola:</b>	Non-polar retention indices

<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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