

# Cycloundecanecarboxylic acid, methyl ester

<b>Other names:</b>	Methyl cycloundecanecarboxylate
<b>Inchi:</b>	InChI=1S/C13H24O2/c1-15-13(14)12-10-8-6-4-2-3-5-7-9-11-12/h12H,2-11H2,1H3
<b>InchiKey:</b>	WVHFSXDJALCJHN-UHFFFAOYSA-N
<b>Formula:</b>	C13H24O2
<b>SMILES:</b>	COC(=O)C1CCCCCCCCCCC1
<b>Mol. weight [g/mol]:</b>	212.33
<b>CAS:</b>	3667-69-4

## Physical Properties

Property code	Value	Unit	Source
gf	-211.39	kJ/mol	Joback Method
hf	-532.93	kJ/mol	Joback Method
hfus	13.55	kJ/mol	Joback Method
hvap	54.98	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.690		Crippen Method
mcvol	190.610	ml/mol	McGowan Method
pc	2289.32	kPa	Joback Method
rinpol	1536.00		NIST Webbook
rinpol	1536.00		NIST Webbook
rinpol	1536.00		NIST Webbook
tb	614.03	K	Joback Method
tc	845.81	K	Joback Method
tf	298.21	K	Joback Method
vc	0.680	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	517.12	J/molxK	614.03	Joback Method
cpg	541.80	J/molxK	652.66	Joback Method
cpg	564.94	J/molxK	691.29	Joback Method
cpg	586.50	J/molxK	729.92	Joback Method
cpg	606.46	J/molxK	768.55	Joback Method

cpg	624.81	J/molxK	807.18	Joback Method
cpg	641.52	J/molxK	845.81	Joback Method
dvisc	0.0095342	Paxs	298.21	Joback Method
dvisc	0.0020104	Paxs	350.85	Joback Method
dvisc	0.0006363	Paxs	403.48	Joback Method
dvisc	0.0002626	Paxs	456.12	Joback Method
dvisc	0.0001302	Paxs	508.76	Joback Method
dvisc	0.0000736	Paxs	561.39	Joback Method
dvisc	0.0000459	Paxs	614.03	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=C3667694&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3667694&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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

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