

# Cycloundecanecarboxylic acid

<b>Inchi:</b>	InChI=1S/C12H22O2/c13-12(14)11-9-7-5-3-1-2-4-6-8-10-11/h11H,1-10H2,(H,13,14)
<b>InchiKey:</b>	BHECNPOVJVTHKS-UHFFFAOYSA-N
<b>Formula:</b>	C12H22O2
<b>SMILES:</b>	O=C(O)C1CCCCCCCCC1
<b>Mol. weight [g/mol]:</b>	198.30
<b>CAS:</b>	831-67-4

## Physical Properties

Property code	Value	Unit	Source
gf	-251.63	kJ/mol	Joback Method
hf	-532.30	kJ/mol	Joback Method
hfus	13.86	kJ/mol	Joback Method
hvap	67.02	kJ/mol	Joback Method
log10ws	-3.60		Crippen Method
logp	3.602		Crippen Method
mcvol	176.520	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
tb	660.91	K	Joback Method
tc	881.05	K	Joback Method
tf	325.53	K	Joback Method
vc	0.625	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	506.23	J/molxK	660.91	Joback Method
cpg	593.16	J/molxK	844.36	Joback Method
cpg	578.51	J/molxK	807.67	Joback Method
cpg	562.48	J/molxK	770.98	Joback Method
cpg	545.10	J/molxK	734.29	Joback Method
cpg	526.34	J/molxK	697.60	Joback Method
cpg	606.45	J/molxK	881.05	Joback Method
dvisc	0.0000152	Paxs	660.91	Joback Method
dvisc	0.0000290	Paxs	605.01	Joback Method

dvisc	0.0000628	Paxs	549.12	Joback Method
dvisc	0.0001621	Paxs	493.22	Joback Method
dvisc	0.0005336	Paxs	437.32	Joback Method
dvisc	0.0024902	Paxs	381.43	Joback Method
dvisc	0.0197263	Paxs	325.53	Joback Method

## Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>
<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=C831674&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C831674&amp;Units=SI</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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