

# 2-Heptyl-oxirane-2-carboxylic acid methyl ester

Inchi:	InChI=1S/C11H20O3/c1-3-4-5-6-7-8-11(9-14-11)10(12)13-2/h3-9H2,1-2H3
InchiKey:	UTZQYBPIBOKLLR-UHFFFAOYSA-N
Formula:	C11H20O3
SMILES:	CCCCCCCC1(C(=O)OC)CO1
Mol. weight [g/mol]:	200.27

## Physical Properties

Property code	Value	Unit	Source
gf	-223.04	kJ/mol	Joback Method
hf	-559.13	kJ/mol	Joback Method
hfus	26.85	kJ/mol	Joback Method
hvap	52.51	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.289		Crippen Method
mcvol	168.300	ml/mol	McGowan Method
pc	2351.92	kPa	Joback Method
rinpol	1392.00		NIST Webbook
rinpol	1392.00		NIST Webbook
tb	561.30	K	Joback Method
tc	750.29	K	Joback Method
tf	354.30	K	Joback Method
vc	0.651	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	432.85	J/mol×K	561.30	Joback Method
cpg	447.82	J/mol×K	592.80	Joback Method
cpg	462.02	J/mol×K	624.30	Joback Method
cpg	475.51	J/mol×K	655.80	Joback Method
cpg	488.39	J/mol×K	687.29	Joback Method
cpg	500.74	J/mol×K	718.79	Joback Method
cpg	512.64	J/mol×K	750.29	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R249162&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R249162&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>
<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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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/88-676-5/2-Heptyl-oxirane-2-carboxylic-acid-methyl-ester.pdf>

Generated by Cheméo on 2024-05-06 21:18:46.269481114 +0000 UTC m=+17319575.190058426.

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