

# Methyl kolavenate

<b>Inchi:</b>	InChI=1S/C21H34O2/c1-15(14-19(22)23-6)10-12-20(4)17(3)11-13-21(5)16(2)8-7-9-18(20)
<b>InchiKey:</b>	ULUVTDOVIRYSSF-CCEZHUSRSA-N
<b>Formula:</b>	C21H34O2
<b>SMILES:</b>	<chem>COC(=O)C=C(C)CCC1(C)C(C)CCC2(C)C(C)=CCCC21</chem>
<b>Mol. weight [g/mol]:</b>	318.49
<b>CAS:</b>	23527-24-4

## Physical Properties

Property code	Value	Unit	Source
gf	30.72	kJ/mol	Joback Method
hf	-457.07	kJ/mol	Joback Method
hfus	30.07	kJ/mol	Joback Method
hvap	70.08	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	5.685		Crippen Method
mcvol	283.870	ml/mol	McGowan Method
pc	1345.70	kPa	Joback Method
rinpol	2372.20		NIST Webbook
rinpol	2359.00		NIST Webbook
rinpol	2372.20		NIST Webbook
tb	786.05	K	Joback Method
tc	1004.62	K	Joback Method
tf	453.95	K	Joback Method
vc	1.079	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	901.63	J/molxK	786.05	Joback Method
cpg	925.52	J/molxK	822.48	Joback Method
cpg	948.94	J/molxK	858.91	Joback Method
cpg	972.13	J/molxK	895.34	Joback Method
cpg	995.33	J/molxK	931.77	Joback Method
cpg	1018.77	J/molxK	968.19	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C23527244&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23527244&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>
<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>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/80-264-0/Methyl-kolavenate.pdf>

Generated by Cheméo on 2024-04-24 03:50:40.507058839 +0000 UTC m=+16219889.427636150.

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