

# (Octadecyl E)-2-methylbut-2-enoate

**Inchi:** InChI=1S/C23H44O2/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-25-23(24)22(3)  
**InchiKey:** SBKJWIXXZKMGTM-RREIPUBJSA-N  
**Formula:** C23H44O2  
**SMILES:** CC=C(C)C(=O)OCCCCCCCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 352.59

## Physical Properties

Property code	Value	Unit	Source
gf	-19.47	kJ/mol	Joback Method
hf	-655.42	kJ/mol	Joback Method
hfus	57.01	kJ/mol	Joback Method
hvap	75.99	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	7.757		Crippen Method
mcvol	338.070	ml/mol	McGowan Method
pc	905.61	kPa	Joback Method
rinpol	2535.00		NIST Webbook
rinpol	2535.00		NIST Webbook
tb	805.97	K	Joback Method
tc	988.62	K	Joback Method
tf	402.09	K	Joback Method
vc	1.329	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1068.44	J/molxK	805.97	Joback Method
cpg	1088.98	J/molxK	836.41	Joback Method
cpg	1108.48	J/molxK	866.85	Joback Method
cpg	1126.99	J/molxK	897.30	Joback Method
cpg	1144.53	J/molxK	927.74	Joback Method
cpg	1161.16	J/molxK	958.18	Joback Method
cpg	1176.91	J/molxK	988.62	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=U373757&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373757&amp;Units=SI</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.cheméo.com/cid/18-815-7/Octadecyl-E-2-methylbut-2-enoate.pdf>

Generated by Cheméo on 2024-04-19 14:48:39.453442357 +0000 UTC m=+15827368.374019673.

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