

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

<b>Inchi:</b>	InChI=1S/C18H34O2/c1-4-6-7-8-9-10-11-12-13-14-15-16-20-18(19)17(3)5-2/h5H,4,6-16H
<b>InchiKey:</b>	NJKUPEIXLOEABR-YAXRCOADSА-N
<b>Formula:</b>	C18H34O2
<b>SMILES:</b>	CC=C(C)C(=O)OCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	282.46

## Physical Properties

Property code	Value	Unit	Source
gf	-61.57	kJ/mol	Joback Method
hf	-552.22	kJ/mol	Joback Method
hfus	44.05	kJ/mol	Joback Method
hvap	64.86	kJ/mol	Joback Method
log10ws	-6.07		Crippen Method
logp	5.807		Crippen Method
mcvol	267.620	ml/mol	McGowan Method
pc	1237.22	kPa	Joback Method
rinpola	2031.00		NIST Webbook
tb	691.57	K	Joback Method
tc	865.71	K	Joback Method
tf	345.74	K	Joback Method
vc	1.048	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.67	J/mol×K	691.57	Joback Method
cpg	786.15	J/mol×K	720.59	Joback Method
cpg	803.78	J/mol×K	749.62	Joback Method
cpg	820.59	J/mol×K	778.64	Joback Method
cpg	836.60	J/mol×K	807.66	Joback Method
cpg	851.84	J/mol×K	836.68	Joback Method
cpg	866.35	J/mol×K	865.71	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373718&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373718&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>

# 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>hvac:</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>mccol:</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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