

# (Z)-Dec-4-enyl (E)-2-methylbut-2-enoate

<b>Inchi:</b>	InChI=1S/C15H26O2/c1-4-6-7-8-9-10-11-12-13-17-15(16)14(3)5-2/h5,9-10H,4,6-8,11-13
<b>InchiKey:</b>	GNDJJJRLHIKVRW-DVBADTPPSA-N
<b>Formula:</b>	C15H26O2
<b>SMILES:</b>	CC=C(C)C(=O)OCCCC=CCCCC
<b>Mol. weight [g/mol]:</b>	238.37

## Physical Properties

Property code	Value	Unit	Source
gf	-6.61	kJ/mol	Joback Method
hf	-373.08	kJ/mol	Joback Method
hfus	36.49	kJ/mol	Joback Method
hvap	58.14	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.412		Crippen Method
mcvol	221.050	ml/mol	McGowan Method
pc	1596.17	kPa	Joback Method
rinpol	1703.00		NIST Webbook
tb	627.09	K	Joback Method
tc	808.40	K	Joback Method
tf	306.85	K	Joback Method
vc	0.861	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	579.91	J/mol×K	627.09	Joback Method
cpg	596.71	J/mol×K	657.31	Joback Method
cpg	612.71	J/mol×K	687.53	Joback Method
cpg	627.95	J/mol×K	717.74	Joback Method
cpg	642.45	J/mol×K	747.96	Joback Method
cpg	656.25	J/mol×K	778.18	Joback Method
cpg	669.38	J/mol×K	808.40	Joback Method

# Sources

<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=U373749&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373749&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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>rinpola:</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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