

# 3-Methylbut-3-en-1-yl cinnamate

<b>Inchi:</b>	InChI=1S/C14H16O2/c1-12(2)10-11-16-14(15)9-8-13-6-4-3-5-7-13/h3-9H,1,10-11H2,2H3
<b>InchiKey:</b>	BJUYLTVRBQUZIH-CMDGGOBGSA-N
<b>Formula:</b>	C14H16O2
<b>SMILES:</b>	<chem>C=C(C)CCOC(=O)C=Cc1ccccc1</chem>
<b>Mol. weight [g/mol]:</b>	216.28
<b>CAS:</b>	327620-55-3

## Physical Properties

Property code	Value	Unit	Source
gf	105.00	kJ/mol	Joback Method
hf	-107.70	kJ/mol	Joback Method
hfus	26.46	kJ/mol	Joback Method
hvap	57.56	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.209		Crippen Method
mcvol	183.200	ml/mol	McGowan Method
pc	2298.11	kPa	Joback Method
rinpol	1758.10		NIST Webbook
rinpol	1758.10		NIST Webbook
rinpol	1747.00		NIST Webbook
rinpol	1747.00		NIST Webbook
tb	623.41	K	Joback Method
tc	839.06	K	Joback Method
tf	325.32	K	Joback Method
vc	0.698	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	451.34	J/molxK	623.41	Joback Method
cpg	466.81	J/molxK	659.35	Joback Method
cpg	481.29	J/molxK	695.29	Joback Method
cpg	494.82	J/molxK	731.24	Joback Method
cpg	507.46	J/molxK	767.18	Joback Method

cpg	519.26	J/mol×K	803.12	Joback Method
cpg	530.27	J/mol×K	839.06	Joback Method

## Sources

<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=C327620553&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C327620553&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>

## 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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