

# 3-Phenylpropyl cinnamate

<b>Inchi:</b>	InChI=1S/C18H18O2/c19-18(14-13-17-10-5-2-6-11-17)20-15-7-12-16-8-3-1-4-9-16/h1-6,
<b>InchiKey:</b>	LYRAHIUDQRJGGZ-BUHFOSPRSA-N
<b>Formula:</b>	C18H18O2
<b>SMILES:</b>	O=C(C=Cc1ccccc1)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	266.33
<b>CAS:</b>	122-68-9

## Physical Properties

Property code	Value	Unit	Source
gf	171.80	kJ/mol	Joback Method
hf	-69.37	kJ/mol	Joback Method
hfus	33.45	kJ/mol	Joback Method
hvap	69.33	kJ/mol	Joback Method
log10ws	-4.45		Crippen Method
logp	3.876		Crippen Method
mcvol	220.100	ml/mol	McGowan Method
pc	2092.66	kPa	Joback Method
rinpol	2257.00		NIST Webbook
rinpol	2257.00		NIST Webbook
rinpol	2323.60		NIST Webbook
rinpol	2323.60		NIST Webbook
tb	745.05	K	Joback Method
tc	978.05	K	Joback Method
tf	412.54	K	Joback Method
vc	0.832	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	602.39	J/molxK	745.05	Joback Method
cpg	671.42	J/molxK	939.22	Joback Method
cpg	659.78	J/molxK	900.38	Joback Method
cpg	647.13	J/molxK	861.55	Joback Method
cpg	633.41	J/molxK	822.72	Joback Method

cpg	618.52	J/molxK	783.88	Joback Method
cpg	682.16	J/molxK	978.05	Joback Method
dvisc	0.0000838	Paxs	745.05	Joback Method
dvisc	0.0001088	Paxs	689.63	Joback Method
dvisc	0.0001478	Paxs	634.21	Joback Method
dvisc	0.0002129	Paxs	578.80	Joback Method
dvisc	0.0003312	Paxs	523.38	Joback Method
dvisc	0.0005723	Paxs	467.96	Joback Method
dvisc	0.0011452	Paxs	412.54	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=C122689&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C122689&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>dvisc:</b>	Dynamic viscosity
<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>mccvol:</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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