

# Isoamyl phenylethyl ether

Other names:	isopentyl phenethyl ether
Inchi:	InChI=1S/C13H20O/c1-12(2)8-10-14-11-9-13-6-4-3-5-7-13/h3-7,12H,8-11H2,1-2H3
InchiKey:	BHQBQWOZHYUVTU-UHFFFAOYSA-N
Formula:	C13H20O
SMILES:	CC(C)CCOCCc1ccccc1
Mol. weight [g/mol]:	192.30
CAS:	56011-02-0

## Physical Properties

Property code	Value	Unit	Source
gf	63.55	kJ/mol	Joback Method
hf	-212.62	kJ/mol	Joback Method
hfus	21.13	kJ/mol	Joback Method
hvap	48.83	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	3.292		Crippen Method
mcvol	176.140	ml/mol	McGowan Method
pc	2175.46	kPa	Joback Method
rinpol	1382.80		NIST Webbook
rinpol	1384.00		NIST Webbook
rinpol	1382.80		NIST Webbook
rinpol	1384.00		NIST Webbook
ripol	1741.00		NIST Webbook
ripol	1741.00		NIST Webbook
tb	545.50	K	Joback Method
tc	744.62	K	Joback Method
tf	269.92	K	Joback Method
vc	0.667	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.36	J/molxK	545.50	Joback Method
cpg	437.90	J/molxK	578.69	Joback Method

cpg	454.53	J/molxK	611.87	Joback Method
cpg	470.28	J/molxK	645.06	Joback Method
cpg	485.18	J/molxK	678.25	Joback Method
cpg	499.26	J/molxK	711.43	Joback Method
cpg	512.53	J/molxK	744.62	Joback Method
dvisc	0.0038006	Paxs	269.92	Joback Method
dvisc	0.0014983	Paxs	315.85	Joback Method
dvisc	0.0007481	Paxs	361.78	Joback Method
dvisc	0.0004368	Paxs	407.71	Joback Method
dvisc	0.0002844	Paxs	453.64	Joback Method
dvisc	0.0002004	Paxs	499.57	Joback Method
dvisc	0.0001498	Paxs	545.50	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C56011020&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56011020&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>
<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>

## 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>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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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