

# 1-Propanol, 3-(phenylmethoxy)-

<b>Other names:</b>	1-Propanol, 3-(benzyloxy)- 1,3-Propanediol monobenzyl ether 3-Benzyloxypropan-1-ol 3-Benzyloxypropanol Trimethylene glycol monobenzyl ether 3-benzyloxy-1-propanol
<b>Inchi:</b>	InChI=1S/C10H14O2/c11-7-4-8-12-9-10-5-2-1-3-6-10/h1-3,5-6,11H,4,7-9H2
<b>InchiKey:</b>	FUCYABRIJPUVAT-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O2
<b>SMILES:</b>	OCCCOc1ccccc1
<b>Mol. weight [g/mol]:</b>	166.22
<b>CAS:</b>	4799-68-2

## Physical Properties

Property code	Value	Unit	Source
gf	-96.09	kJ/mol	Joback Method
hf	-297.65	kJ/mol	Joback Method
hfus	20.97	kJ/mol	Joback Method
hvap	59.22	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.586		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
tb	569.48	K	Joback Method
tc	760.48	K	Joback Method
tf	311.93	K	Joback Method
vc	0.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.92	J/mol×K	569.48	Joback Method
cpg	391.10	J/mol×K	728.65	Joback Method
cpg	381.26	J/mol×K	696.81	Joback Method

cpg	370.84	J/molxK	664.98	Joback Method
cpg	359.82	J/molxK	633.15	Joback Method
cpg	348.18	J/molxK	601.31	Joback Method
cpg	400.38	J/molxK	760.48	Joback Method
dvisc	0.0000799	Paxs	569.48	Joback Method
dvisc	0.0001250	Paxs	526.56	Joback Method
dvisc	0.0002118	Paxs	483.63	Joback Method
dvisc	0.0003977	Paxs	440.71	Joback Method
dvisc	0.0008552	Paxs	397.78	Joback Method
dvisc	0.0022134	Paxs	354.86	Joback Method
dvisc	0.0074425	Paxs	311.93	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=C4799682&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4799682&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>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>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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