

# 2-[2'-(Alpha-methylbenzyloxy)ethoxy]ethyl benzoate

<b>Inchi:</b>	InChI=1S/C19H22O4/c1-16(17-8-4-2-5-9-17)22-14-12-21-13-15-23-19(20)18-10-6-3-7-1
<b>InchiKey:</b>	NSSPMFHOOGMCN-UHFFFAOYSA-N
<b>Formula:</b>	C19H22O4
<b>SMILES:</b>	CC(OCCOCCOC(=O)c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	314.38
<b>CAS:</b>	116495-71-7

## Physical Properties

Property code	Value	Unit	Source
gf	-112.44	kJ/mol	Joback Method
hf	-476.95	kJ/mol	Joback Method
hfus	34.69	kJ/mol	Joback Method
hvap	76.03	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.638		Crippen Method
mcvol	250.230	ml/mol	McGowan Method
pc	1795.46	kPa	Joback Method
tb	808.17	K	Joback Method
tc	1029.08	K	Joback Method
tf	458.35	K	Joback Method
vc	0.938	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	739.06	J/molxK	808.17	Joback Method
cpg	754.95	J/molxK	844.99	Joback Method
cpg	769.50	J/molxK	881.81	Joback Method
cpg	782.76	J/molxK	918.62	Joback Method
cpg	794.73	J/molxK	955.44	Joback Method
cpg	805.46	J/molxK	992.26	Joback Method
cpg	814.97	J/molxK	1029.08	Joback Method
dvisc	0.0006501	Paxs	458.35	Joback Method
dvisc	0.0003250	Paxs	516.65	Joback Method

dvisc	0.0001870	Paxs	574.96	Joback Method
dvisc	0.0001191	Paxs	633.26	Joback Method
dvisc	0.0000819	Paxs	691.56	Joback Method
dvisc	0.0000596	Paxs	749.87	Joback Method
dvisc	0.0000455	Paxs	808.17	Joback Method

## Sources

<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>
<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=C116495717&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116495717&amp;Units=SI</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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