

# Phenylacetic acid, 4-benzyloxyphenyl ester

<b>Inchi:</b>	InChI=1S/C21H18O3/c22-21(15-17-7-3-1-4-8-17)24-20-13-11-19(12-14-20)23-16-18-9-5
<b>InchiKey:</b>	OYNXINLGCVEFI-UHFFFAOYSA-N
<b>Formula:</b>	C21H18O3
<b>SMILES:</b>	O=C(Cc1ccccc1)Oc1ccc(OCc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	318.37

## Physical Properties

Property code	Value	Unit	Source
gf	114.62	kJ/mol	Joback Method
hf	-155.67	kJ/mol	Joback Method
hfus	35.85	kJ/mol	Joback Method
hvap	81.40	kJ/mol	Joback Method
log10ws	-5.63		Crippen Method
logp	4.414		Crippen Method
mvol	248.780	ml/mol	McGowan Method
pc	2016.32	kPa	Joback Method
rinpol	2680.00		NIST Webbook
rinpol	2680.00		NIST Webbook
tb	863.61	K	Joback Method
tc	1112.38	K	Joback Method
tf	512.60	K	Joback Method
vc	0.929	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	727.78	J/molxK	863.61	Joback Method
cpg	742.35	J/molxK	905.07	Joback Method
cpg	755.41	J/molxK	946.53	Joback Method
cpg	767.03	J/molxK	987.99	Joback Method
cpg	777.30	J/molxK	1029.45	Joback Method
cpg	786.28	J/molxK	1070.92	Joback Method
cpg	794.04	J/molxK	1112.38	Joback Method
dvisc	0.0004889	Paxs	512.60	Joback Method

dvisc	0.0002779	Paxs	571.10	Joback Method
dvisc	0.0001754	Paxs	629.60	Joback Method
dvisc	0.0001197	Paxs	688.11	Joback Method
dvisc	0.0000868	Paxs	746.61	Joback Method
dvisc	0.0000659	Paxs	805.11	Joback Method
dvisc	0.0000520	Paxs	863.61	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=U307538&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307538&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>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>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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