

# 3-Phenylpropionic acid, 4-benzyloxyphenyl ester

Inchi:	InChI=1S/C22H20O3/c23-22(16-11-18-7-3-1-4-8-18)25-21-14-12-20(13-15-21)24-17-19-
InchiKey:	ROBBAEHOOIWETD-UHFFFAOYSA-N
Formula:	C22H20O3
SMILES:	O=C(CCc1ccccc1)Oc1ccc(OCc2ccccc2)cc1
Mol. weight [g/mol]:	332.39

## Physical Properties

Property code	Value	Unit	Source
gf	123.04	kJ/mol	Joback Method
hf	-176.31	kJ/mol	Joback Method
hfus	38.45	kJ/mol	Joback Method
hvap	83.62	kJ/mol	Joback Method
log10ws	-6.05		Crippen Method
logp	4.804		Crippen Method
mcvol	262.870	ml/mol	McGowan Method
pc	1853.11	kPa	Joback Method
rinpol	2827.00		NIST Webbook
rinpol	2827.00		NIST Webbook
tb	886.49	K	Joback Method
tc	1131.29	K	Joback Method
tf	523.87	K	Joback Method
vc	0.986	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	784.86	J/molxK	886.49	Joback Method
cpg	799.42	J/molxK	927.29	Joback Method
cpg	812.50	J/molxK	968.09	Joback Method
cpg	824.16	J/molxK	1008.89	Joback Method
cpg	834.47	J/molxK	1049.69	Joback Method
cpg	843.52	J/molxK	1090.49	Joback Method
cpg	851.37	J/molxK	1131.29	Joback Method
dvisc	0.0004446	Paxs	523.87	Joback Method

dvisc	0.0002498	Paxs	584.31	Joback Method
dvisc	0.0001563	Paxs	644.74	Joback Method
dvisc	0.0001060	Paxs	705.18	Joback Method
dvisc	0.0000764	Paxs	765.62	Joback Method
dvisc	0.0000578	Paxs	826.05	Joback Method
dvisc	0.0000454	Paxs	886.49	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=U307788&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307788&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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