

# Di-(2-phenylphenoxy) methane

<b>Inchi:</b>	InChI=1S/C25H20O2/c1-3-11-20(12-4-1)22-15-7-9-17-24(22)26-19-27-25-18-10-8-16-23
<b>InchiKey:</b>	CVTZOGSKBHYCKX-UHFFFAOYSA-N
<b>Formula:</b>	C25H20O2
<b>SMILES:</b>	c1ccc(-c2ccccc2OCOc2ccccc2-c2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	352.43
<b>CAS:</b>	116374-06-2

## Physical Properties

Property code	Value	Unit	Source
gf	380.00	kJ/mol	Joback Method
hf	99.41	kJ/mol	Joback Method
hfus	38.27	kJ/mol	Joback Method
hvap	86.49	kJ/mol	Joback Method
log10ws	-8.64		Crippen Method
logp	6.436		Crippen Method
mcvol	279.810	ml/mol	McGowan Method
pc	1798.51	kPa	Joback Method
tb	932.92	K	Joback Method
tc	1198.89	K	Joback Method
tf	546.69	K	Joback Method
vc	1.040	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	844.20	J/molxK	932.92	Joback Method
cpg	902.32	J/molxK	1154.56	Joback Method
cpg	893.63	J/molxK	1110.23	Joback Method
cpg	883.59	J/molxK	1065.90	Joback Method
cpg	872.09	J/molxK	1021.58	Joback Method
cpg	859.00	J/molxK	977.25	Joback Method
cpg	909.78	J/molxK	1198.89	Joback Method
dvisc	0.0000329	Paxs	932.92	Joback Method
dvisc	0.0000416	Paxs	868.55	Joback Method

dvisc	0.0000545	Paxs	804.18	Joback Method
dvisc	0.0000750	Paxs	739.81	Joback Method
dvisc	0.0001095	Paxs	675.43	Joback Method
dvisc	0.0001732	Paxs	611.06	Joback Method
dvisc	0.0003051	Paxs	546.69	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C116374062&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116374062&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>
<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>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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