

# N,N-Diphenylcarbamic acid, 4-biphenyl ester

<b>Inchi:</b>	InChI=1S/C25H19NO2/c27-25(26(22-12-6-2-7-13-22)23-14-8-3-9-15-23)28-24-18-16-21
<b>InchiKey:</b>	AEYFPYAZOWKZRY-UHFFFAOYSA-N
<b>Formula:</b>	C25H19NO2
<b>SMILES:</b>	O=C(Oc1ccc(-c2ccccc2)cc1)N(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	365.42

## Physical Properties

Property code	Value	Unit	Source
gf	476.49	kJ/mol	Joback Method
hf	198.05	kJ/mol	Joback Method
hfus	42.09	kJ/mol	Joback Method
hvap	92.21	kJ/mol	Joback Method
log10ws	-7.88		Crippen Method
logp	6.691		Crippen Method
mvol	285.490	ml/mol	McGowan Method
pc	1949.23	kPa	Joback Method
rinpol	3305.00		NIST Webbook
rinpol	3305.00		NIST Webbook
tb	971.83	K	Joback Method
tc	1240.95	K	Joback Method
tf	594.34	K	Joback Method
vc	1.046	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	868.94	J/mol×K	971.83	Joback Method
cpg	882.31	J/mol×K	1016.68	Joback Method
cpg	894.27	J/mol×K	1061.54	Joback Method
cpg	905.01	J/mol×K	1106.39	Joback Method
cpg	914.70	J/mol×K	1151.24	Joback Method
cpg	923.54	J/mol×K	1196.10	Joback Method
cpg	931.71	J/mol×K	1240.95	Joback Method

# Sources

<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=U360537&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360537&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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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