

# Diphenic anhydride

<b>Other names:</b>	Dibenz[c,e]oxepin-5,7-dione 2,2'-Biphenyldicarboxylic anhydride 2,2'-Diphenyldicarboxylic anhydride 2,2'-Diphenic anhydride Diphenic acid anhydride NSC 67689 biphenyl-2,2'-dicarboxylic anhydride
<b>Inchi:</b>	InChI=1S/C14H8O3/c15-13-11-7-3-1-5-9(11)10-6-2-4-8-12(10)14(16)17-13/h1-8H
<b>InchiKey:</b>	RTSGJTANVBJFFJ-UHFFFAOYSA-N
<b>Formula:</b>	C14H8O3
<b>SMILES:</b>	O=c1oc(=O)c2ccccc2c2ccccc12
<b>Mol. weight [g/mol]:</b>	224.21
<b>CAS:</b>	6050-13-1

## Physical Properties

Property code	Value	Unit	Source
hsub	120.70 ± 4.00	kJ/mol	NIST Webbook
log10ws	-7.66		Crippen Method
logp	2.306		Crippen Method
mvol	158.750	ml/mol	McGowan Method
rinpol	343.70		NIST Webbook
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## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	91.40	kJ/mol	461.50	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C6050131&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**hsub:** Enthalpy of sublimation at standard conditions  
**hsubt:** Enthalpy of sublimation at a given temperature  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rinpol:** Non-polar retention indices

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