

# 4,4'-Diheptanoyloxydiphenyldiacetylene

<b>Inchi:</b>	InChI=1S/C30H34O4/c1-3-5-7-9-15-29(31)33-27-21-17-25(18-22-27)13-11-12-14-26-19-
<b>InchiKey:</b>	SUMRTVAVHVZJSN-UHFFFAOYSA-N
<b>Formula:</b>	C30H34O4
<b>SMILES:</b>	CCCCCCC(=O)Oc1ccc(C#CC#Cc2ccc(OC(=O)CCCCC)cc2)cc1
<b>Mol. weight [g/mol]:</b>	458.59
<b>CAS:</b>	92341-27-0

## Physical Properties

Property code	Value	Unit	Source
gf	345.04	kJ/mol	Joback Method
hf	-157.41	kJ/mol	Joback Method
hfus	72.58	kJ/mol	Joback Method
hvap	110.87	kJ/mol	Joback Method
log10ws	-9.33		Crippen Method
logp	6.841		Crippen Method
mcvol	383.720	ml/mol	McGowan Method
pc	1072.17	kPa	Joback Method
tb	1119.70	K	Joback Method
tc	1371.87	K	Joback Method
tf	862.26	K	Joback Method
vc	1.472	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1261.80	J/molxK	1119.70	Joback Method
cpg	1274.15	J/molxK	1161.73	Joback Method
cpg	1284.83	J/molxK	1203.76	Joback Method
cpg	1293.90	J/molxK	1245.78	Joback Method
cpg	1301.46	J/molxK	1287.81	Joback Method
cpg	1307.57	J/molxK	1329.84	Joback Method
cpg	1312.33	J/molxK	1371.87	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=C92341270&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C92341270&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.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>

# 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>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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