

# n-butyldiene dihydrophthalide

<b>Inchi:</b>	InChI=1S/C12H14O2/c1-2-3-8-11-9-6-4-5-7-10(9)12(13)14-11/h4-10H,2-3H2,1H3/b11-8-
<b>InchiKey:</b>	XTVWTNWDUGUSNF-FLIBITNWSA-N
<b>Formula:</b>	C12H14O2
<b>SMILES:</b>	CCCC=C1OC(=O)C2C=CC=CC12
<b>Mol. weight [g/mol]:</b>	190.24

## Physical Properties

Property code	Value	Unit	Source
gf	32.03	kJ/mol	Joback Method
hf	-242.00	kJ/mol	Joback Method
hfus	27.06	kJ/mol	Joback Method
hvap	52.78	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	2.586		Crippen Method
mcvol	152.760	ml/mol	McGowan Method
pc	2746.90	kPa	Joback Method
ripol	2676.00		NIST Webbook
tb	599.98	K	Joback Method
tc	831.06	K	Joback Method
tf	356.99	K	Joback Method
vc	0.581	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.28	J/molxK	599.98	Joback Method
cpg	413.28	J/molxK	638.49	Joback Method
cpg	429.18	J/molxK	677.01	Joback Method
cpg	444.03	J/molxK	715.52	Joback Method
cpg	457.86	J/molxK	754.04	Joback Method
cpg	470.73	J/molxK	792.55	Joback Method
cpg	482.68	J/molxK	831.06	Joback Method

# Sources

<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>
<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=R339527&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R339527&amp;Units=SI</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	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

Latest version available from:

<https://www.chemeo.com/cid/94-064-7/n-butylidene-dihydrophthalide.pdf>

Generated by Cheméo on 2024-04-27 06:54:39.815090633 +0000 UTC m=+16490128.735667954.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.