

# But-3-enyl 3,5-dinitrobenzoate

<b>Other names:</b>	Benzoic acid, 3,5-dinitro, 3-butenyl ester 3-Butenyl 3,5-dinitrobenzoate
<b>Inchi:</b>	InChI=1S/C11H10N2O6/c1-2-3-4-19-11(14)8-5-9(12(15)16)7-10(6-8)13(17)18/h2,5-7H,1
<b>InchiKey:</b>	AUGWZTWOGIRQQN-UHFFFAOYSA-N
<b>Formula:</b>	C11H10N2O6
<b>SMILES:</b>	<chem>C=CCCOC(=O)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1</chem>
<b>Mol. weight [g/mol]:</b>	266.21

## Physical Properties

Property code	Value	Unit	Source
gf	59.91	kJ/mol	Joback Method
hf	-197.67	kJ/mol	Joback Method
hfus	41.74	kJ/mol	Joback Method
hvap	85.35	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	2.236		Crippen Method
mcvol	180.070	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
rinpol	1934.00		NIST Webbook
rinpol	1942.00		NIST Webbook
rinpol	1938.00		NIST Webbook
rinpol	1920.00		NIST Webbook
ripol	2956.00		NIST Webbook
ripol	2935.00		NIST Webbook
ripol	2953.00		NIST Webbook
ripol	2974.00		NIST Webbook
ripol	2935.00		NIST Webbook
tb	864.37	K	Joback Method
tc	1119.11	K	Joback Method
tf	622.81	K	Joback Method
vc	0.713	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	506.97	J/mol×K	864.37	Joback Method
cpg	516.43	J/mol×K	906.83	Joback Method
cpg	524.87	J/mol×K	949.28	Joback Method
cpg	532.35	J/mol×K	991.74	Joback Method
cpg	538.89	J/mol×K	1034.20	Joback Method
cpg	544.54	J/mol×K	1076.66	Joback Method
cpg	549.35	J/mol×K	1119.11	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373853&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373853&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>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>rinpol:</b>	Non-polar retention indices
<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

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