

# (E)-But-2-enyl 3,5-dinitrobenzoate

<b>Other names:</b>	Benzoic acid, 3,5-dinitro, (E)-2-butenyl ester
<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/h2-3,5-7H
<b>InchiKey:</b>	WFJDNVCWKBAFND-NSCUHMNNSA-N
<b>Formula:</b>	C11H10N2O6
<b>SMILES:</b>	CC=CCOC(=O)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	266.21

## Physical Properties

Property code	Value	Unit	Source
gf	52.29	kJ/mol	Joback Method
hf	-205.88	kJ/mol	Joback Method
hfus	43.22	kJ/mol	Joback Method
hvap	85.98	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	2.236		Crippen Method
mcvol	180.070	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
rinpol	1970.00		NIST Webbook
rinpol	1970.00		NIST Webbook
rinpol	2048.00		NIST Webbook
rinpol	1948.00		NIST Webbook
rinpol	1956.00		NIST Webbook
rinpol	1948.00		NIST Webbook
rinpol	2048.00		NIST Webbook
rinpol	1967.00		NIST Webbook
ripol	2997.00		NIST Webbook
ripol	2997.00		NIST Webbook
ripol	2972.00		NIST Webbook
ripol	2972.00		NIST Webbook
ripol	2989.00		NIST Webbook
ripol	3009.00		NIST Webbook
tb	871.85	K	Joback Method
tc	1130.79	K	Joback Method
tf	619.49	K	Joback Method
vc	0.712	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	506.00	J/mol×K	871.85	Joback Method
cpg	515.56	J/mol×K	915.01	Joback Method
cpg	524.15	J/mol×K	958.16	Joback Method
cpg	531.84	J/mol×K	1001.32	Joback Method
cpg	538.69	J/mol×K	1044.48	Joback Method
cpg	544.76	J/mol×K	1087.63	Joback Method
cpg	550.09	J/mol×K	1130.79	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=U373850&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373850&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>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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