

# Isophthalic acid, 4-bromophenyl ethyl ester

<b>Inchi:</b>	InChI=1S/C16H13BrO4/c1-2-20-15(18)11-4-3-5-12(10-11)16(19)21-14-8-6-13(17)7-9-14
<b>InchiKey:</b>	HNCYHYNDUHJADC-UHFFFAOYSA-N
<b>Formula:</b>	C16H13BrO4
<b>SMILES:</b>	CCOC(=O)c1cccc(C(=O)Oc2ccc(Br)cc2)c1
<b>Mol. weight [g/mol]:</b>	349.18

## Physical Properties

Property code	Value	Unit	Source
gf	-164.12	kJ/mol	Joback Method
hf	-386.72	kJ/mol	Joback Method
hfus	35.36	kJ/mol	Joback Method
hvap	81.83	kJ/mol	Joback Method
log10ws	-5.38		Crippen Method
logp	3.845		Crippen Method
mvol	221.160	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
rinpol	2575.00		NIST Webbook
rinpol	2575.00		NIST Webbook
tb	847.54	K	Joback Method
tc	1093.22	K	Joback Method
tf	552.08	K	Joback Method
vc	0.826	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	588.98	J/molxK	847.54	Joback Method
cpg	634.78	J/molxK	1052.27	Joback Method
cpg	627.86	J/molxK	1011.32	Joback Method
cpg	619.86	J/molxK	970.38	Joback Method
cpg	610.74	J/molxK	929.43	Joback Method
cpg	600.46	J/molxK	888.49	Joback Method
cpg	640.65	J/molxK	1093.22	Joback Method
dvisc	0.0000798	Paxs	847.54	Joback Method

dvisc	0.0000979	Paxs	798.30	Joback Method
dvisc	0.0001233	Paxs	749.05	Joback Method
dvisc	0.0001605	Paxs	699.81	Joback Method
dvisc	0.0002173	Paxs	650.57	Joback Method
dvisc	0.0003092	Paxs	601.32	Joback Method
dvisc	0.0004686	Paxs	552.08	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344463&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344463&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>dvisc:</b>	Dynamic viscosity
<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>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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