

# Terephthalic acid, butyl 2-iodobenzyl ester

<b>Inchi:</b>	InChI=1S/C19H19IO4/c1-2-3-12-23-18(21)14-8-10-15(11-9-14)19(22)24-13-16-6-4-5-7-1
<b>InchiKey:</b>	MJFVTRGORZEIAY-UHFFFAOYSA-N
<b>Formula:</b>	C19H19IO4
<b>SMILES:</b>	CCCCOC(=O)c1ccc(C(=O)OCc2ccccc2I)cc1
<b>Mol. weight [g/mol]:</b>	438.26

## Physical Properties

Property code	Value	Unit	Source
gf	-95.06	kJ/mol	Joback Method
hf	-398.10	kJ/mol	Joback Method
hfus	42.25	kJ/mol	Joback Method
hvap	91.45	kJ/mol	Joback Method
log10ws	-6.47		Crippen Method
logp	4.605		Crippen Method
mcvol	271.750	ml/mol	McGowan Method
pc	1826.28	kPa	Joback Method
rinpol	3078.00		NIST Webbook
rinpol	3078.00		NIST Webbook
tb	943.16	K	Joback Method
tc	1189.04	K	Joback Method
tf	584.15	K	Joback Method
vc	1.020	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	765.00	J/molxK	943.16	Joback Method
cpg	776.52	J/molxK	984.14	Joback Method
cpg	786.76	J/molxK	1025.12	Joback Method
cpg	795.78	J/molxK	1066.10	Joback Method
cpg	803.62	J/molxK	1107.08	Joback Method
cpg	810.34	J/molxK	1148.06	Joback Method
cpg	815.99	J/molxK	1189.04	Joback Method
dvisc	0.0003723	Paxs	584.15	Joback Method

dvisc	0.0002254	Paxs	643.99	Joback Method
dvisc	0.0001486	Paxs	703.82	Joback Method
dvisc	0.0001046	Paxs	763.65	Joback Method
dvisc	0.0000774	Paxs	823.49	Joback Method
dvisc	0.0000597	Paxs	883.33	Joback Method
dvisc	0.0000476	Paxs	943.16	Joback Method

## Sources

<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=U416073&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416073&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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