

METHYL 3,5-DIBROMOBENZOATE

Other names:	Benzoic acid, 3,5-dibromo-, methyl ester
Inchi:	InChI=1S/C8H6Br2O2/c1-12-8(11)5-2-6(9)4-7(10)3-5/h2-4H,1H3
InchiKey:	GSMAWUZTAIOCPL-UHFFFAOYSA-N
Formula:	C8H6Br2O2
SMILES:	COC(=O)c1cc(Br)cc(Br)c1
Mol. weight [g/mol]:	293.94

Physical Properties

Property code	Value	Unit	Source
af	0.5274		Cheméo Relay (1.0)
hf	-245.20	kJ/mol	Cheméo Relay (1.0)
hfus	23.10	kJ/mol	Joback Method
hvap	76.45	kJ/mol	Cheméo Relay (1.0)
ie	9.28	eV	Cheméo Relay (1.0)
log10ws	-4.44		Cheméo Relay (1.0)
logp	2.998		Crippen Method
mcvol	142.260	ml/mol	McGowan Method
pc	4438.52	kPa	Joback Method
rinpol	1614.00		NIST Webbook
tb	556.27	K	Cheméo Relay (1.0)
tc	771.74	K	Cheméo Relay (1.0)
tf	368.45	K	Cheméo Relay (1.0)
vc	0.488	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	274.61	J/mol×K	627.69	Joback Method
cpg	283.58	J/mol×K	669.45	Joback Method
cpg	291.87	J/mol×K	711.20	Joback Method
cpg	299.53	J/mol×K	752.96	Joback Method
cpg	306.56	J/mol×K	794.71	Joback Method
cpg	313.01	J/mol×K	836.47	Joback Method
cpg	318.89	J/mol×K	878.22	Joback Method

dvisc	0.0010566	Pa×s	423.14	Joback Method
dvisc	0.0007517	Pa×s	457.23	Joback Method
dvisc	0.0005606	Pa×s	491.32	Joback Method
dvisc	0.0004344	Pa×s	525.42	Joback Method
dvisc	0.0003472	Pa×s	559.51	Joback Method
dvisc	0.0002847	Pa×s	593.60	Joback Method
dvisc	0.0002385	Pa×s	627.69	Joback Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C51329158&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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