

methyl 2,5-diiodobenzoate

Inchi:	InChI=1S/C8H6I2O2/c1-12-8(11)6-4-5(9)2-3-7(6)10/h2-4H,1H3
InchiKey:	DYYAKMJJKVLJFN-UHFFFAOYSA-N
Formula:	C8H6I2O2
SMILES:	COC(=O)c1cc(I)ccc1I
Mol. weight [g/mol]:	387.94

Physical Properties

Property code	Value	Unit	Source
gf	-8.05	kJ/mol	Joback Method
hf	-85.92	kJ/mol	Joback Method
hfus	21.34	kJ/mol	Joback Method
hvap	64.90	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	2.682		Crippen Method
mcvol	158.900	ml/mol	McGowan Method
pc	3530.46	kPa	Joback Method
rinpol	1825.00		NIST Webbook
rinpol	1825.00		NIST Webbook
tb	681.65	K	Joback Method
tc	965.17	K	Joback Method
tf	419.66	K	Joback Method
vc	0.576	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.54	J/mol×K	681.65	Joback Method
cpg	297.23	J/mol×K	728.90	Joback Method
cpg	305.13	J/mol×K	776.16	Joback Method
cpg	312.28	J/mol×K	823.41	Joback Method
cpg	318.75	J/mol×K	870.66	Joback Method
cpg	324.58	J/mol×K	917.92	Joback Method
cpg	329.81	J/mol×K	965.17	Joback Method
dvisc	0.0013981	Paxs	419.66	Joback Method

dvisc	0.0008776	Paxs	463.32	Joback Method
dvisc	0.0005968	Paxs	506.99	Joback Method
dvisc	0.0004315	Paxs	550.65	Joback Method
dvisc	0.0003272	Paxs	594.32	Joback Method
dvisc	0.0002577	Paxs	637.98	Joback Method
dvisc	0.0002093	Paxs	681.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R389349&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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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