

Diethylmalonic acid, di(4-bromophenyl) ester

Inchi:	InChI=1S/C19H18Br2O4/c1-3-19(4-2,17(22)24-15-9-5-13(20)6-10-15)18(23)25-16-11-7-
InchiKey:	VESLXVWAXROJTR-UHFFFAOYSA-N
Formula:	C19H18Br2O4
SMILES:	CCC(CC)(C(=O)Oc1ccc(Br)cc1)C(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	470.15

Physical Properties

Property code	Value	Unit	Source
gf	-121.70	kJ/mol	Joback Method
hf	-431.06	kJ/mol	Joback Method
hfus	41.00	kJ/mol	Joback Method
hvap	93.65	kJ/mol	Joback Method
log10ws	-7.09		Crippen Method
logp	5.529		Crippen Method
mcvol	280.930	ml/mol	McGowan Method
pc	2141.36	kPa	Joback Method
rinpol	2868.00		NIST Webbook
rinpol	2868.00		NIST Webbook
tb	979.11	K	Joback Method
tc	1233.03	K	Joback Method
tf	648.11	K	Joback Method
vc	1.044	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	785.70	J/molxK	979.11	Joback Method
cpg	796.31	J/molxK	1021.43	Joback Method
cpg	805.87	J/molxK	1063.75	Joback Method
cpg	814.48	J/molxK	1106.07	Joback Method
cpg	822.25	J/molxK	1148.39	Joback Method
cpg	829.29	J/molxK	1190.71	Joback Method
cpg	835.69	J/molxK	1233.03	Joback Method
dvisc	0.0001988	Paxs	648.11	Joback Method

dvisc	0.0001284	Paxs	703.28	Joback Method
dvisc	0.0000884	Paxs	758.44	Joback Method
dvisc	0.0000640	Paxs	813.61	Joback Method
dvisc	0.0000483	Paxs	868.78	Joback Method
dvisc	0.0000377	Paxs	923.94	Joback Method
dvisc	0.0000302	Paxs	979.11	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U369835&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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