

Pimelic acid, 4-bromo-2-methoxybenzyl ethyl ester

Inchi:	InChI=1S/C17H23BrO5/c1-3-22-16(19)7-5-4-6-8-17(20)23-12-13-9-10-14(18)11-15(13)2
InchiKey:	UMIJAWFVASLJFO-UHFFFAOYSA-N
Formula:	C17H23BrO5
SMILES:	CCOC(=O)CCCCC(=O)OCc1ccc(Br)cc1OC
Mol. weight [g/mol]:	387.27

Physical Properties

Property code	Value	Unit	Source
gf	-373.11	kJ/mol	Joback Method
hf	-776.11	kJ/mol	Joback Method
hfus	45.10	kJ/mol	Joback Method
hvap	84.19	kJ/mol	Joback Method
log10ws	-5.13		Crippen Method
logp	4.014		Crippen Method
mvol	264.880	ml/mol	McGowan Method
pc	1728.90	kPa	Joback Method
rinpol	2553.00		NIST Webbook
rinpol	2553.00		NIST Webbook
tb	866.16	K	Joback Method
tc	1077.81	K	Joback Method
tf	559.16	K	Joback Method
vc	1.008	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	770.17	J/molxK	866.16	Joback Method
cpg	825.08	J/molxK	1042.54	Joback Method
cpg	816.32	J/molxK	1007.26	Joback Method
cpg	806.45	J/molxK	971.99	Joback Method
cpg	795.47	J/molxK	936.71	Joback Method
cpg	783.38	J/molxK	901.44	Joback Method
cpg	832.75	J/molxK	1077.81	Joback Method
dvisc	0.0000505	Paxs	866.16	Joback Method

dvisc	0.0000627	Paxs	814.99	Joback Method
dvisc	0.0000802	Paxs	763.83	Joback Method
dvisc	0.0001062	Paxs	712.66	Joback Method
dvisc	0.0001468	Paxs	661.49	Joback Method
dvisc	0.0002143	Paxs	610.33	Joback Method
dvisc	0.0003352	Paxs	559.16	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406581&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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