

Diglycolic acid, 4-bromophenyl heptyl ester

Inchi:	InChI=1S/C17H23BrO5/c1-2-3-4-5-6-11-22-16(19)12-21-13-17(20)23-15-9-7-14(18)8-10
InchiKey:	CYAJDZFCEZGGKD-UHFFFAOYSA-N
Formula:	C17H23BrO5
SMILES:	CCCCCCCOC(=O)COCC(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	387.27

Physical Properties

Property code	Value	Unit	Source
gf	-363.48	kJ/mol	Joback Method
hf	-764.64	kJ/mol	Joback Method
hfus	45.48	kJ/mol	Joback Method
hvap	83.53	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	3.885		Crippen Method
mvol	264.880	ml/mol	McGowan Method
pc	1750.67	kPa	Joback Method
rinpol	3152.00		NIST Webbook
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tb	861.18	K	Joback Method
tc	1072.02	K	Joback Method
tf	546.64	K	Joback Method
vc	1.008	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	771.32	J/molxK	861.18	Joback Method
cpg	784.62	J/molxK	896.32	Joback Method
cpg	796.80	J/molxK	931.46	Joback Method
cpg	807.89	J/molxK	966.60	Joback Method
cpg	817.89	J/molxK	1001.74	Joback Method
cpg	826.81	J/molxK	1036.88	Joback Method
cpg	834.66	J/molxK	1072.02	Joback Method
dvisc	0.0003788	Paxs	546.64	Joback Method

dvisc	0.0002329	Paxs	599.06	Joback Method
dvisc	0.0001549	Paxs	651.49	Joback Method
dvisc	0.0001095	Paxs	703.91	Joback Method
dvisc	0.0000812	Paxs	756.33	Joback Method
dvisc	0.0000626	Paxs	808.76	Joback Method
dvisc	0.0000498	Paxs	861.18	Joback Method

Sources

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=U381899&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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