

Phthalic acid, 2-(4-bromophenoxy)ethyl octyl ester

Inchi:	InChI=1S/C24H29BrO5/c1-2-3-4-5-6-9-16-29-23(26)21-10-7-8-11-22(21)24(27)30-18-17
InchiKey:	YPLVDBAOUYHZPC-UHFFFAOYSA-N
Formula:	C24H29BrO5
SMILES:	CCCCCCCCOC(=O)c1cccc1C(=O)OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	477.39

Physical Properties

Property code	Value	Unit	Source
gf	-201.76	kJ/mol	Joback Method
hf	-684.06	kJ/mol	Joback Method
hfus	57.27	kJ/mol	Joback Method
hvap	102.05	kJ/mol	Joback Method
log10ws	-7.82		Crippen Method
logp	6.202		Crippen Method
mvol	339.750	ml/mol	McGowan Method
pc	1326.17	kPa	Joback Method
rinpol	3236.00		NIST Webbook
rinpol	3236.00		NIST Webbook
tb	1053.00	K	Joback Method
tc	1291.19	K	Joback Method
tf	664.47	K	Joback Method
vc	1.292	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1074.55	J/molxK	1053.00	Joback Method
cpg	1085.82	J/molxK	1092.70	Joback Method
cpg	1095.54	J/molxK	1132.40	Joback Method
cpg	1103.75	J/molxK	1172.10	Joback Method
cpg	1110.49	J/molxK	1211.80	Joback Method
cpg	1115.82	J/molxK	1251.49	Joback Method
cpg	1119.79	J/molxK	1291.19	Joback Method
dvisc	0.0001402	Paxs	664.47	Joback Method

dvisc	0.0000858	Paxs	729.23	Joback Method
dvisc	0.0000568	Paxs	793.98	Joback Method
dvisc	0.0000401	Paxs	858.74	Joback Method
dvisc	0.0000297	Paxs	923.49	Joback Method
dvisc	0.0000229	Paxs	988.25	Joback Method
dvisc	0.0000182	Paxs	1053.00	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=U382897&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
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:	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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