

Fumaric acid, 4-bromophenyl hex-4-yn-3-yl ester

Inchi:	InChI=1S/C16H15BrO4/c1-3-5-13(4-2)20-15(18)10-11-16(19)21-14-8-6-12(17)7-9-14/h6
InchiKey:	QBCNXANJJMVLJA-ZHACJKMWSA-N
Formula:	C16H15BrO4
SMILES:	CC#CC(CC)OC(=O)C=CC(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	351.19

Physical Properties

Property code	Value	Unit	Source
gf	13.68	kJ/mol	Joback Method
hf	-227.54	kJ/mol	Joback Method
hfus	41.51	kJ/mol	Joback Method
hvap	80.62	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	3.256		Crippen Method
mvol	232.020	ml/mol	McGowan Method
pc	2363.37	kPa	Joback Method
rinpol	2331.00		NIST Webbook
rinpol	2331.00		NIST Webbook
tb	828.60	K	Joback Method
tc	1069.41	K	Joback Method
tf	599.16	K	Joback Method
vc	0.870	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	609.90	J/mol×K	828.60	Joback Method
cpg	622.39	J/mol×K	868.73	Joback Method
cpg	633.84	J/mol×K	908.87	Joback Method
cpg	644.28	J/mol×K	949.00	Joback Method
cpg	653.76	J/mol×K	989.14	Joback Method
cpg	662.32	J/mol×K	1029.27	Joback Method
cpg	670.00	J/mol×K	1069.41	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=U405769&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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