

Ethyl 2-bromodecanoate

Other names:	Ethyl 2-bromodecanoate
Inchi:	InChI=1S/C12H23BrO2/c1-3-5-6-7-8-9-10-11(13)12(14)15-4-2/h11H,3-10H2,1-2H3
InchiKey:	IOOXHTJCOQWOJW-UHFFFAOYSA-N
Formula:	C12H23BrO2
SMILES:	CCCCCCCCC(Br)C(=O)OCC
Mol. weight [g/mol]:	279.22

Physical Properties

Property code	Value	Unit	Source
af	0.6974		Cheméo Relay (1.0)
hf	-590.66	kJ/mol	Cheméo Relay (1.0)
hfus	31.39	kJ/mol	Joback Method
hvap	73.49	kJ/mol	Cheméo Relay (1.0)
log10ws	-4.78		Cheméo Relay (1.0)
logp	4.064		Crippen Method
mcvol	204.880	ml/mol	McGowan Method
pc	1980.59	kPa	Joback Method
rinpol	1682.00		NIST Webbook
rinpol	1587.00		NIST Webbook
rinpol	1682.00		NIST Webbook
tb	538.22	K	Cheméo Relay (1.0)
tc	719.22	K	Cheméo Relay (1.0)
tf	274.72	K	Cheméo Relay (1.0)
vc	0.760	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	512.85	J/mol×K	615.97	Joback Method
cpg	528.06	J/mol×K	646.81	Joback Method
cpg	542.55	J/mol×K	677.64	Joback Method
cpg	556.34	J/mol×K	708.48	Joback Method
cpg	569.46	J/mol×K	739.31	Joback Method
cpg	581.90	J/mol×K	770.15	Joback Method

cpg	593.71	J/mol×K	800.98	Joback Method
dvisc	0.0025939	Pa×s	341.96	Joback Method
dvisc	0.0012447	Pa×s	387.63	Joback Method
dvisc	0.0006973	Pa×s	433.30	Joback Method
dvisc	0.0004362	Pa×s	478.96	Joback Method
dvisc	0.0002961	Pa×s	524.63	Joback Method
dvisc	0.0002139	Pa×s	570.30	Joback Method
dvisc	0.0001621	Pa×s	615.97	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C6974852&Units=SI>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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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