

2- Bromopropionic acid, octyl ester

Other names: Octyl 2-bromopropanoate.

InChI: InChI=1S/C11H21BrO2/c1-3-4-5-6-7-8-9-14-11(13)10(2)12/h10H,3-9H2,1-2H3

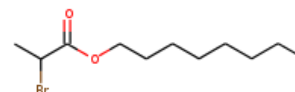
InChI Key: BOCFEZOZUMAGFA-UHFFFAOYSA-N

Formula: C11H21BrO2

SMILES: CCCCCCOC(=O)C(C)Br

Molecular Weight: 265.19

CAS: 24625-82-9



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-180.30	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-494.12	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	28.79	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	55.28	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	3.674		Crippen Method
P_c	2161.32	kPa	Joback Method
T_{boil}	593.09	K	Joback Method
T_c	779.97	K	Joback Method
T_{fus}	330.69	K	Joback Method
V_c	0.732	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	462.31	J/mol×K	593.09	Joback Method
η	0.0001824	Paxs	593.09	Joback Method

Sources

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

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C11H21BrO2/c1-3-4-5-6-7-8-9-14-11\(13\)10\(2\)12/h10H,3-9H2,1-2H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C11H21BrO2/c1-3-4-5-6-7-8-9-14-11(13)10(2)12/h10H,3-9H2,1-2H3)

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

$C_{p,gas}$: Ideal gas heat capacity (J/molxK).

η : Dynamic viscosity (Pa \times s).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$: Octanol/Water partition coefficient .

P_c : Critical Pressure (kPa).

T_{boil} : Normal Boiling Point Temperature (K).

T_c : Critical Temperature (K).

T_{fus} : Normal melting (fusion) point (K).

V_c : Critical Volume (m³/kg-mol).

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