

Carboxylic Acids

Mark Scheme 1

Level	IGCSE
Subject	Chemistry
Exam Board	Edexcel IGCSE
Module	Single Award (Paper 2C)
Topic	Organic Chemistry
Sub-Topic	Carboxylic Acids
Booklet	Mark Scheme 1

Time Allowed: 12 minutes

Score: /10

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	77.5%	70%	60%	55%	50%	<50%

Question number	Answer	Notes	Marks
1 d i	product formulae or names / products (word) above reactants	Horizontal line not needed Ignore formula errors and one or two missing product(s) Ignore curves and intermediates	1
	ii (approximately) vertical line between reactants and products / between two levels AND labelled ΔH / energy change / heat change / enthalpy change	Ignore arrowheads on vertical line Ignore sign of ΔH Mark can be awarded for exothermic reaction Accept 2310 or any other number in place of ΔH	1

Question number	Answer	Notes	Marks
1 (e) i	temperature change = (-)5.5 (°C)	Award M1 for 5.5 anywhere	1
	heat change (= $100 \times 4.2 \times 5.5$) = 2310/2300 (J)	CQ on candidate temperature change, provided other values correct Accept answer in kJ Ignore signs Correct final answer scores 2 2.31 (J) scores 1 mark if M1 not awarded	1
ii	concentration (of vinegar / (ethanoic) acid / CH_3COOH)	Ignore strength Ignore reference to M_r Accept concentration even if in an incorrect expression	1
		Total	10