

Title	Describe applications of surface chemistry		
Level	3	Credits	2

Purpose	People credited with this unit standard are able to describe the nature of emulsions, and explain the action of surfactants as cleaning agents.
----------------	---

Classification	Science > Chemistry
-----------------------	---------------------

Available grade	Achieved
------------------------	----------

Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Describe the nature of emulsions.

Performance criteria

- 1.1 The description outlines the effect of surfactants on lowering surface tension of liquids.
- 1.2 The description distinguishes oil in water and water in oil emulsions by their different properties.
- Range distinguishing properties - mixing with polar or non-polar solvents, electrical conductivity.

Outcome 2

Explain the action of surfactants as cleaning agents.

Performance criteria

- 2.1 The explanation describes the cleaning action of soaps or detergents in terms of their hydrophobic and hydrophilic nature.
- 2.2 The explanation compares the structure and properties of synthetic detergents with those of soap.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 December 1995	31 December 2013
Review	2	31 October 1996	31 December 2013
Revision	3	7 July 1999	31 December 2013
Revision	4	12 February 2003	31 December 2013
Review	5	20 September 2012	31 December 2022
Rollover and Revision	6	15 June 2017	31 December 2022
Review	7	22 October 2020	31 December 2022

Consent and Moderation Requirements (CMR) reference

0226

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.